

# HEIGHT CODE TABLES FOR USE WITH AIR TRAFFIC CONTROL RADAR BEACON SYSTEM

615 818

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42-P

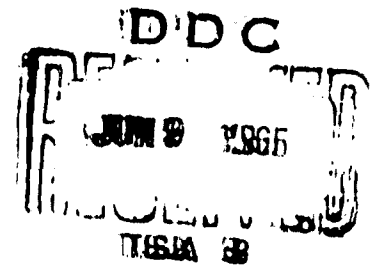
COPY	1	OF	1
HARD COPY	\$ . 2.00		
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Under Contract FAA/BRD-329

Task No. 6

✓ REPORT NO. 8893-SP-1

May 1962



FEDERAL AVIATION AGENCY  
AVIATION RESEARCH AND DEVELOPMENT SERVICE

(This report has been approved for general distribution)

CUTLER - HAMMER

AIRBORNE INSTRUMENTS LABORATORY  
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**AIRBORNE INSTRUMENTS LABORATORY  
A DIVISION OF CUTLER-HAMMER, INC.**

**Deer Park, Long Island, New York**

## INTRODUCTION

↓  
The Seventh Communications Division of the International Civil Aviation Organization (ICAO) has recommended the adoption of a digital code for automatic height transmission via the AIR TRAFFIC CONTROL RADAR BEACON SYSTEM. Salient features of the code are

- (1) One-hundred-foot digitizing increments;
- (2) Range from -1000 feet to +126,750 feet;
- (3) Compatibility with limited-capability 500-foot incremented code;
- (4) Unambiguous unit-distance characteristic;
- (5) Height transmission with respect to a fixed datum of 1013.2 millibars (29.92 inches of mercury).

The code, as recommended by ICAO, is tabulated for height increments in increasing numeric order (~~Table 1~~) and for the equivalent octal Mode 3/A reply in increasing numeric order, (~~Table 2~~). (~~Asterisked replies indicate the use of the SPI position.~~) The "PULSE POSITIONS" column lists the time-sequence assignment of the pulse-transmission reply, and the "HEIGHT CODE POSITIONS" column gives a rearrangement of the code information in significant-digit sequence.

Five-hundred-foot increments are extracted from the tables by omitting the C information pulses for the appropriate integer multiple of 500-foot height. ( )

↑

TABLE  
UNIT DISTANCE REFLECTED BINARY CODE FOR 8 BITS

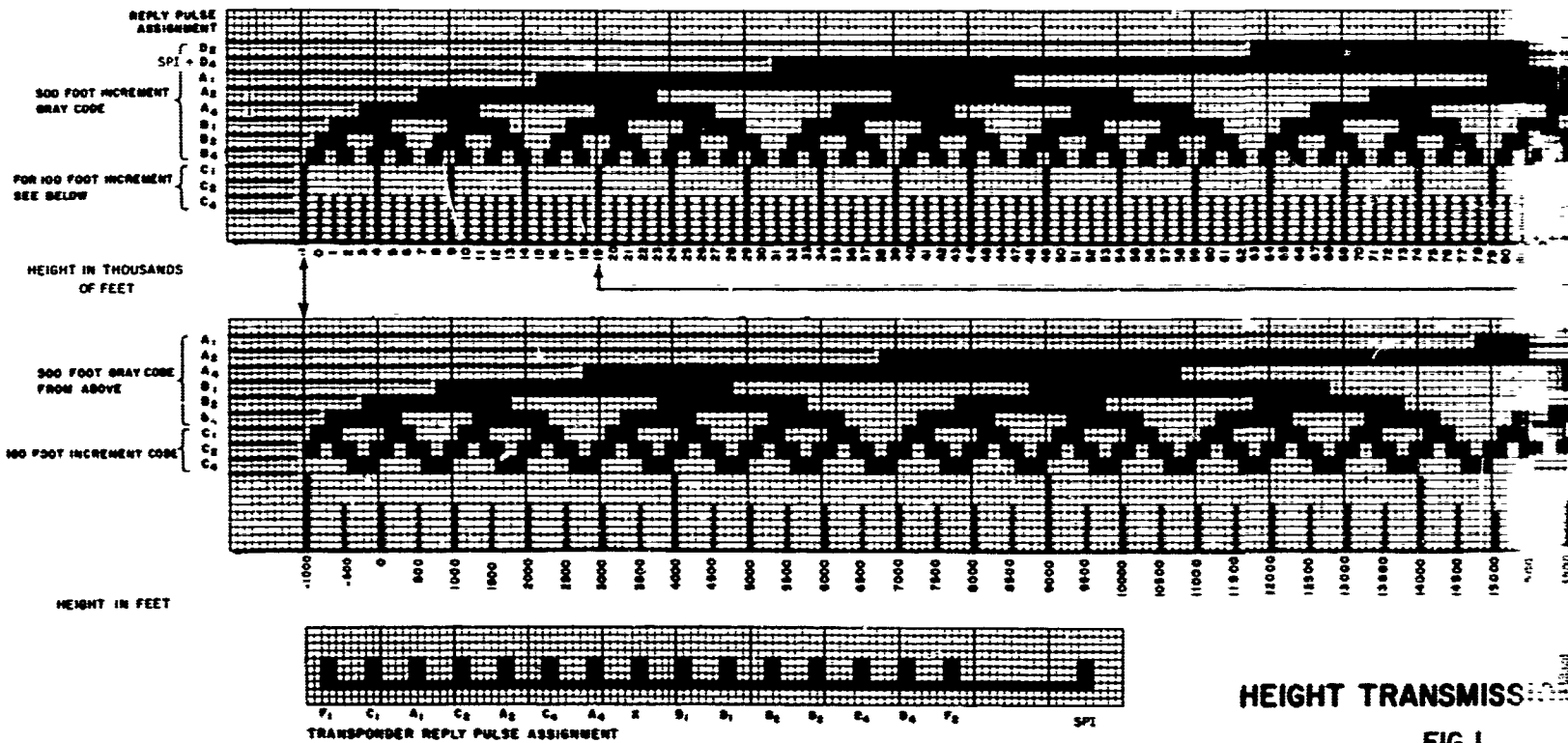
$A_4, B_1, B_2, B_4$  Pulses\*

$D_2, D_4, A_1, A_2$  Pulses

2's  
Group

	0000	0001	0011	0010	0110	0111	0101	0100	1100	1101	1111	1110	1010	1011	1001	1000
0000	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0001	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0011	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
0010	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0110	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
0111	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
0101	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
0100	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
1100	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
1101	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1111	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1110	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
1010	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
1011	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
1001	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
1000	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

\* 0 or 1 in a pulse position indicates the absence or presence of a pulse respectively.

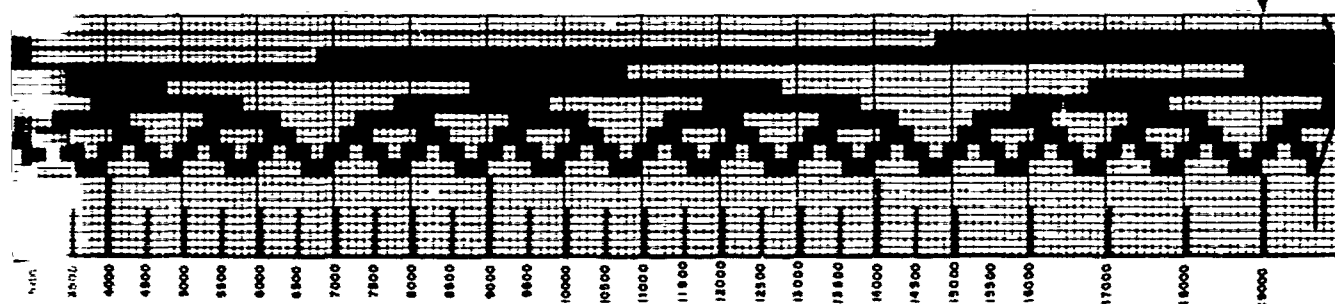
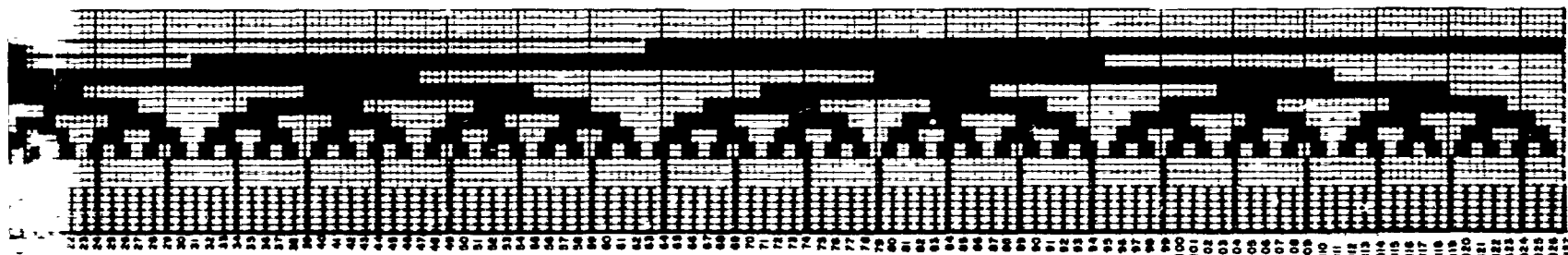


A

TABLE  
UNIT DISTANCE REFLECTED BINARY CODE FCA 8 BITS

	0000	0001	0011	0010	0110	0111	0101	0100	1100	1101	1111	1110	1010	1011	1001	1000
0000	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0001	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0011	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
0010	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0110	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
0111	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
0101	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
0100	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
1100	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
1101	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1111	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
1110	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
1010	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
1011	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
1001	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
1000	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

256 increments (500 foot each)  
Giving height from 1000 feet to 127,000 feet



100 FOOT INCREMENT TABLE					
100 FOOT PULSES			SUM OF DIGITS OF GRAY CODE		
C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	ODD	EVEN	
0	0	1	7	8	
0	1	1	6	9	
0	1	0	5	0	
1	1	0	4	1	
1	0	0	3	2	



HEIGHT TRANSMISSION CODE

FIG.1

TABLE 1

HEIGHT	EQUIV - ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
-1 000	0020	1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 1 0
- 900	0030	1 1 0 1 0 0 0 0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 1 1 0
- 800	0010	1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 1 0 0
- 700	0410	1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 1 1 0 0
- 600	0430	1 1 0 1 0 0 0 0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 1 1 1 0
- 500	0420	1 0 0 1 0 0 0 0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 1 0 1 0
- 400	0460	1 0 0 1 0 1 0 0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 1 0 1 1
- 300	0440	1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0 0 1 0 0 1
- 200	0640	1 0 0 0 0 1 0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 1 1 0 0 1
- 100	0660	1 0 0 1 0 1 0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 1 1 0 1 1
0	0620	1 0 0 1 0 0 0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 1 1 0 1 0
100	0630	1 1 0 1 0 0 0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 1 1 1 1 0
200	0610	1 1 0 0 0 0 0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 1 1 1 0 0
300	0210	1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 1 0 1 0 0
400	0230	1 1 0 1 0 0 0 0 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 1 0 1 1 0
500	0220	1 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 1 0 0 1 0
600	0260	1 0 0 1 0 1 0 0 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 1 0 0 1 1
700	0240	1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 1 0 0 0 1
800	0340	1 0 0 0 0 1 0 0 0 1 0 1 0 0 0 1	0 0 0 0 0 0 0 1 1 0 0 0 1
900	0360	1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 1	0 0 0 0 0 0 0 1 1 0 0 1 1
1 000	0320	1 0 0 1 0 0 0 0 0 1 0 1 0 0 0 1	0 0 0 0 0 0 0 1 1 0 0 1 0
1 100	0330	1 1 0 1 0 0 0 0 0 1 0 1 0 0 0 1	0 0 0 0 0 0 0 1 1 0 1 1 0
1 200	0310	1 1 0 0 0 0 0 0 0 1 0 1 0 0 0 1	0 0 0 0 0 0 0 1 1 0 1 0 0
1 300	0710	1 1 0 0 0 0 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 1 1 1 1 0 0
1 400	0730	1 1 0 1 0 0 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 1 1 1 1 1 0
1 500	0720	1 0 0 1 0 0 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 1 1 1 1 0 1
1 600	0760	1 0 0 1 0 1 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 1 1 1 1 0 1
1 700	0740	1 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 1 1 1 0 0 1
1 800	0540	1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 1	0 0 0 0 0 0 0 1 0 1 0 0 1
1 900	0560	1 0 0 1 0 1 0 0 0 1 0 0 0 1 0 1	0 0 0 0 0 0 0 1 0 1 0 1 1
2 000	0520	1 0 0 1 0 0 0 0 0 1 0 0 0 1 0 1	0 0 0 0 0 0 0 1 0 1 0 1 0
2 100	0530	1 1 0 1 0 0 0 0 0 1 0 0 0 1 0 1	0 0 0 0 0 0 0 1 0 1 1 1 0
2 200	0510	1 1 0 0 0 0 0 0 0 1 0 0 0 1 0 1	0 0 0 0 0 0 0 1 0 1 1 0 0
2 300	0110	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 0 1 0 0
2 400	0130	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 0 1 1 0
2 500	0120	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 0 0 1 0
2 600	0160	1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 0 0 1 1
2 700	0140	1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 0 0 0 1
2 800	4140	1 0 0 0 0 1 1 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 0 0 1
2 900	4160	1 0 0 1 0 1 1 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 0 1 1
3 000	4120	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 0 1 0
3 100	4130	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 0 1 0
3 200	4110	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 0 1 0
3 300	4510	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 1 0 0
3 400	4530	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 1 1 0
3 500	4520	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 1 0 0
3 600	4560	1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 1 1 0
3 700	4540	1 0 0 0 0 1 1 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 0 0 1 0 1
3 800	4740	1 0 0 0 0 1 1 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 0 0 1
3 900	4760	1 0 0 1 0 1 1 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 0 1 1
4 000	4720	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 0 1 0
4 100	4730	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 1 1 0
4 200	4710	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 1 0 0
4 300	4310	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 1 0 0
4 400	4330	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 1 1 0
4 500	4320	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 0 1 0
4 600	4360	1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 0 1 1
4 700	4340	1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 1 1 0 0 0 1
4 800	4240	1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 0 0 0 1
4 900	4260	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 0 0 1 1
5 000	4220	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 0 0 1 0
5 100	4230	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 0 1 1 0
5 200	4210	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 0 1 0 0
5 300	4610	1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 1 0 0 0
5 400	4630	1 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 1 1 1 0
5 500	4620	1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 1 0 1 0
5 600	4660	1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 1 0 1 1
5 700	4640	1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1	0 0 0 0 0 0 1 0 1 1 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
5 800	4440	1 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0	0 0 0 0 1 0 0 1 0 0 1
5 900	4460	1 0 0 1 0 1 1 0 0 0 0 0 1 0 1 0	0 0 0 0 1 0 0 1 0 1 1
6 000	4420	1 0 0 1 0 0 1 0 0 0 0 0 1 0 1 0	0 0 0 0 1 0 0 1 0 1 0
6 100	4430	1 1 0 1 0 0 1 0 0 0 0 0 1 0 1 0	0 0 0 0 1 0 0 1 1 1 0
6 200	4410	1 1 0 0 0 0 1 0 0 0 0 0 1 0 1 0	0 0 0 0 1 0 0 1 1 0 0
6 300	4010	1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0	0 0 0 0 1 0 0 0 1 0 0
6 400	4030	1 1 0 1 0 0 1 0 0 0 0 0 0 0 1 0	0 0 0 0 1 0 0 0 1 1 0
6 500	4020	1 0 0 1 0 0 1 0 0 0 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 1 0
6 600	4060	1 0 0 1 0 1 1 0 0 0 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 1 1
6 700	4040	1 0 0 0 0 1 1 0 0 0 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 0 1
6 800	6040	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 0 1
6 900	6060	1 0 0 1 1 1 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 1
7 000	6020	1 0 0 1 1 0 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 0
7 100	6030	1 1 0 1 1 0 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 1 1 0
7 200	6010	1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 1 0 0
7 300	6410	1 1 0 0 1 0 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 1 0 0
7 400	6430	1 1 0 1 1 0 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 1 1 0
7 500	6420	1 0 0 1 1 0 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 0 1 0
7 600	6460	1 0 0 1 1 1 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 0 1 1
7 700	6440	1 0 0 0 1 1 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 0 0 1
7 800	6640	1 0 0 0 1 1 1 0 0 0 1 0 1 0 1 0	0 0 0 1 1 0 1 1 0 0 1
7 900	6660	1 0 0 1 1 1 1 0 0 0 1 0 1 0 1 0	0 0 0 1 1 0 1 1 0 1 1
8 000	6620	1 0 0 1 1 0 1 0 0 0 1 0 1 0 1 0	0 0 0 1 1 0 1 1 0 1 0
8 100	6630	1 1 0 1 1 0 1 0 0 0 1 0 1 0 1 0	0 0 0 1 1 0 1 1 1 1 0
8 200	6610	1 1 0 0 1 0 1 0 0 0 1 0 1 0 1 0	0 0 0 1 1 0 1 1 1 0 0
8 300	6210	1 1 0 0 1 0 1 0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 1 0 1 0 0
8 400	6230	1 1 0 1 1 0 1 0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 1 0 1 1 0
8 500	6220	1 0 0 1 1 0 1 0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 1 0 0 1 0
8 600	6260	1 0 0 1 1 1 1 0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 1 0 0 1 1
8 700	6240	1 0 0 0 1 1 1 0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 1 0 0 0 1
8 800	6340	1 0 0 0 1 1 1 0 1 0 1 0 0 0 1 0	0 0 0 1 1 1 1 0 0 0 1
8 900	6360	1 0 0 1 1 1 1 0 1 0 1 0 0 0 1 0	0 0 0 1 1 1 1 0 0 1 1
9 000	6320	1 0 0 1 1 0 1 0 1 0 1 0 0 0 1 0	0 0 0 1 1 1 1 0 0 1 0
9 100	6330	1 1 0 1 1 0 1 0 1 0 1 0 0 0 1 0	0 0 0 1 1 1 1 0 1 1 0
9 200	6310	1 1 0 0 1 0 1 0 1 0 1 0 0 0 1 0	0 0 0 1 1 1 1 0 1 0 0
9 300	6710	1 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 1 1 1 1 1 1 0 0
9 400	6730	1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 1 1 1 1 1 1 1 0
9 500	6720	1 0 0 1 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 1 1 1 1 1 1 0 0
9 600	6760	1 0 0 1 1 1 1 0 1 0 1 0 1 0 1 0	0 0 0 1 1 1 1 1 1 0 1
9 700	6740	1 0 0 0 1 1 1 0 1 0 1 0 1 0 1 0	0 0 0 1 1 1 1 1 1 0 0
9 800	6540	1 0 0 0 1 1 1 0 1 0 0 0 1 0 1 0	0 0 0 1 1 1 1 0 1 0 0
9 900	6560	1 0 0 1 1 1 1 0 1 0 0 0 1 0 1 0	0 0 0 1 1 1 1 0 1 0 1
10 000	6520	1 0 0 1 1 0 1 0 1 0 0 0 1 0 1 0	0 0 0 1 1 1 1 0 1 0 0
10 100	6530	1 1 0 1 1 0 1 0 1 0 0 0 1 0 1 0	0 0 0 1 1 1 1 0 1 1 0
10 200	6510	1 1 0 0 1 0 1 0 1 0 0 0 1 0 1 0	0 0 0 1 1 1 1 0 1 0 0
10 300	6110	1 1 0 0 1 0 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 0 0
10 400	6130	1 1 0 1 1 0 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 1 0
10 500	6120	1 0 0 1 1 0 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 0
10 600	6160	1 0 0 1 1 1 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 1
10 700	6140	1 0 0 0 1 1 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 0 1
10 800	2140	1 0 0 0 1 1 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 0 0 0 1
10 900	2160	1 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 0 0 1 1
11 000	2120	1 0 0 1 1 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 0 0 1 0
11 100	2130	1 1 0 1 1 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 0 1 1 0
11 200	2110	1 1 0 0 1 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 0 1 0 0
11 300	2510	1 1 0 0 1 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 1 1 0 0
11 400	2530	1 1 0 1 1 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 1 1 1 0
11 500	2520	1 0 0 1 1 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 1 0 1 0
11 600	2560	1 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 1 0 1 1
11 700	2540	1 0 0 0 1 1 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 1 0 1 0 0 1
11 800	2740	1 0 0 0 1 1 0 0 1 0 1 0 1 0 1 0	0 0 0 1 0 1 1 1 1 0 0 1
11 900	2760	1 0 0 1 1 1 0 0 1 0 1 0 1 0 1 0	0 0 0 1 0 1 1 1 1 0 1 1
12 000	2720	1 0 0 1 1 0 0 0 1 0 1 0 1 0 1 0	0 0 0 1 0 1 1 1 1 0 1 0
12 100	2730	1 1 0 1 1 0 0 0 1 0 1 0 1 0 1 0	0 0 0 1 0 1 1 1 1 1 1 0
12 200	2710	1 1 0 0 1 0 0 0 1 0 1 0 1 0 1 0	0 0 0 1 0 1 1 1 1 1 0 0
12 300	2310	1 1 0 0 1 0 0 0 1 0 1 0 0 0 1 0	0 0 0 1 0 1 1 0 1 0 0 0
12 400	2330	1 1 0 1 1 0 0 0 1 0 1 0 0 0 1 0	0 0 0 1 0 1 1 0 1 1 0 0
12 500	2320	1 0 0 1 1 0 0 0 1 0 1 0 0 0 1 0	0 0 0 1 0 1 1 0 0 1 0 0
12 600	2360	1 0 0 1 1 1 0 0 1 0 1 0 0 0 1 0	0 0 0 1 0 1 1 0 0 1 1 1
12 700	2340	1 0 0 0 1 1 0 0 1 0 1 0 0 0 1 0	0 0 0 1 0 1 1 0 0 0 1 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
12 800	2240	1 0 0 0 1 1 0 0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 1 0 0 0 1
12 900	2260	1 0 0 1 1 1 0 0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 1 0 0 0 1 1
13 000	2220	1 0 0 1 1 0 0 0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 1 0 0 0 1 0
13 100	2230	1 1 0 1 1 0 0 0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 1 0 0 1 1 0
13 200	2210	1 1 0 0 1 0 0 0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 1 0 0 1 0 0
13 300	2610	1 1 0 0 1 0 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 1 0 0 0
13 400	2630	1 1 0 1 1 0 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 1 1 0 0
13 500	2620	1 0 0 1 1 0 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 0 1 0 0
13 600	2660	1 0 0 1 1 1 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 0 1 1 1
13 700	2640	1 0 0 0 1 1 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 0 0 1 1
13 800	2440	1 0 0 0 1 1 0 0 0 0 0 0 1 0 1 0	0 0 0 1 0 0 0 1 0 0 1 1
13 900	2460	1 0 0 1 1 1 0 0 0 0 0 0 1 0 1 0	0 0 0 1 0 0 0 1 0 1 1 1
14 000	2420	1 0 0 1 1 0 0 0 0 0 0 0 1 0 1 0	0 0 0 1 0 0 0 1 0 1 0 0
14 100	2430	1 1 0 1 1 0 0 0 0 0 0 0 1 0 1 0	0 0 0 1 0 0 0 1 1 1 0 0
14 200	2410	1 1 0 0 1 0 0 0 0 0 0 0 1 0 1 0	0 0 0 1 0 0 0 1 1 0 0 0
14 300	2010	1 1 0 0 1 0 0 0 0 0 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 1 0 0
14 400	2030	1 1 0 1 1 0 0 0 0 0 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 1 1 0
14 500	2020	1 0 0 1 1 0 0 0 0 0 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 0 1 0
14 600	2060	1 0 0 1 1 1 0 0 0 0 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 0 1 1
14 700	2040	1 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 0 0 1
14 800	3040	1 0 1 0 1 1 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0 1
14 900	3060	1 0 1 1 1 1 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0 1
15 000	3020	1 0 1 1 1 0 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0 1
15 100	3030	1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 1 0
15 200	3010	1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 1 0
15 300	3410	1 1 1 0 1 0 0 0 0 0 0 0 1 0 1 0	0 0 1 1 0 0 0 0 1 1 0 0
15 400	3430	1 1 1 1 1 0 0 0 0 0 0 0 1 0 1 0	0 0 1 1 0 0 0 0 1 1 1 0
15 500	3420	1 0 1 1 1 0 0 0 0 0 0 0 1 0 1 0	0 0 1 1 0 0 0 0 1 0 1 0
15 600	3460	1 0 1 1 1 1 0 0 0 0 0 0 1 0 1 0	0 0 1 1 0 0 0 0 1 0 1 1
15 700	3440	1 0 1 0 1 1 0 0 0 0 0 0 1 0 1 0	0 0 1 1 0 0 0 0 1 0 0 1
15 800	3640	1 0 1 0 1 1 0 0 0 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 0 0 1
15 900	3660	1 0 1 1 1 1 0 0 0 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 0 0 1 1
16 000	3620	1 0 1 1 1 0 0 0 0 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 0 0 1 0
16 100	3630	1 1 1 1 1 0 0 0 0 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 1 1 0 0
16 200	3610	1 1 1 0 1 0 0 0 0 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 1 0 0 0
16 300	3270	1 1 1 0 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 1 0 0 0
16 400	3230	1 1 1 1 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 1 1 0 0
16 500	3220	1 0 1 1 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 1 0
16 600	3260	1 0 1 1 1 1 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 1 1
16 700	3240	1 0 1 0 1 1 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 0 1
16 800	3340	1 0 1 0 1 1 0 0 0 1 0 1 0 0 0 1	0 0 1 1 0 1 1 0 0 0 0 1
16 900	3360	1 0 1 1 1 1 0 0 0 1 0 1 0 0 0 1	0 0 1 1 0 1 1 0 0 0 1 1
17 000	3320	1 0 1 1 1 0 0 0 0 1 0 1 0 0 0 1	0 0 1 1 0 1 1 0 0 0 1 0
17 100	3330	1 1 1 1 1 0 0 0 0 1 0 1 0 0 0 1	0 0 1 1 0 1 1 0 0 0 1 0
17 200	3310	1 1 1 0 1 0 0 0 0 1 0 1 0 0 0 1	0 0 1 1 0 1 1 0 0 0 1 0
17 300	3710	1 1 1 0 1 0 0 0 0 1 0 1 0 1 0 1	0 0 1 1 0 1 1 1 1 1 0 0
17 400	3730	1 1 1 1 1 0 0 0 0 1 0 1 0 1 0 1	0 0 1 1 0 1 1 1 1 1 1 0
17 500	3720	1 0 1 1 1 0 0 0 0 1 0 1 0 1 0 1	0 0 1 1 0 1 1 1 1 0 1 0
17 600	3760	1 0 1 1 1 1 0 0 0 1 0 1 0 1 0 1	0 0 1 1 0 1 1 1 1 0 1 1
17 700	3740	1 0 1 0 1 1 0 0 0 1 0 1 0 1 0 1	0 0 1 1 0 1 1 1 0 0 0 1
17 800	3540	1 0 1 0 1 1 0 0 0 1 0 0 0 1 0 1	0 0 1 1 0 1 0 1 0 0 0 1
17 900	3560	1 0 1 1 1 1 0 0 0 1 0 0 0 1 0 1	0 0 1 1 0 1 0 1 0 0 1 1
18 000	3520	1 0 1 1 1 0 0 0 0 1 0 0 0 1 0 1	0 0 1 1 0 1 0 1 0 0 1 0
18 100	3530	1 1 1 1 1 0 0 0 0 1 0 0 0 1 0 1	0 0 1 1 0 1 0 1 0 1 1 0
18 200	3510	1 1 1 0 1 0 0 0 0 1 0 0 0 1 0 1	0 0 1 1 0 1 0 1 0 1 0 0
18 300	3110	1 1 1 0 1 0 0 0 0 1 0 0 0 0 0 1	0 0 1 1 0 1 0 0 0 1 0 0
18 400	3130	1 1 1 1 1 0 0 0 0 1 0 0 0 0 0 1	0 0 1 1 0 1 0 0 0 1 1 0
18 500	3120	1 0 1 1 1 0 0 0 0 1 0 0 0 0 0 1	0 0 1 1 0 1 0 0 0 0 1 0
18 600	3160	1 0 1 1 1 1 0 0 0 1 0 0 0 0 0 1	0 0 1 1 0 1 0 0 0 0 1 1
18 700	3140	1 0 1 0 1 1 0 0 0 1 0 0 0 0 0 1	0 0 1 1 0 1 0 0 0 0 0 1
18 800	7140	1 0 1 0 1 1 1 0 0 1 0 0 0 0 0 1	0 0 1 1 1 1 0 0 0 0 0 1
18 900	7160	1 0 1 1 1 1 1 0 0 1 0 0 0 0 0 1	0 0 1 1 1 1 0 0 0 0 0 1
19 000	7120	1 0 1 1 1 0 0 0 0 1 0 0 0 0 0 1	0 0 1 1 1 1 0 0 0 0 1 0
19 100	7130	1 1 1 1 1 0 0 0 0 1 0 0 0 0 0 1	0 0 1 1 1 1 0 0 0 0 1 0
19 200	7110	1 1 1 0 1 0 0 0 0 1 0 0 0 0 0 1	0 0 1 1 1 1 0 0 0 0 1 0
19 300	7510	1 1 1 0 1 0 0 0 0 1 0 0 0 1 0 1	0 0 1 1 1 1 0 0 1 1 0 0
19 400	7530	1 1 1 1 1 0 0 0 0 1 0 0 0 1 0 1	0 0 1 1 1 1 0 0 1 1 1 0
19 500	7520	1 0 1 1 1 0 0 0 0 1 0 0 0 1 0 1	0 0 1 1 1 1 0 0 1 0 1 0
19 600	7560	1 0 1 1 1 1 0 0 0 1 0 0 0 1 0 1	0 0 1 1 1 1 0 0 1 0 1 1
19 700	7540	1 0 1 0 1 1 1 0 0 1 0 0 0 1 0 1	0 0 1 1 1 1 0 0 1 0 0 1



TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	<sup>D<sub>4</sub></sup> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
19 800	7740	1 0 1 0 1 1 1 0 1 0 1 0 1 0 1 0	0 0 1 1 1 1 1 1 0 0 1
19 900	7760	1 0 1 1 1 1 1 0 1 0 1 0 1 0 1 0	0 0 1 1 1 1 1 1 0 0 1
20 000	7720	1 0 1 1 1 1 0 1 0 1 0 1 0 1 0 1	0 0 1 1 1 1 1 1 0 0 1
20 100	7730	1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0	0 0 1 1 1 1 1 1 0 0 1
20 200	7710	1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 1 1 1 1 1 1 0 0 0
20 300	7310	1 1 1 0 1 0 1 0 1 0 1 0 0 0 1 0	0 0 1 1 1 1 1 0 0 1 0 0
20 400	7330	1 1 1 1 1 0 1 0 1 0 1 0 0 0 1 0	0 0 1 1 1 1 1 0 0 1 0 0
20 500	7320	1 0 1 1 1 0 1 0 1 0 1 0 0 0 1 0	0 0 1 1 1 1 1 0 0 0 1 0
20 600	7360	1 0 1 1 1 1 1 0 1 0 1 0 0 0 1 0	0 0 1 1 1 1 1 0 0 0 1 1
20 700	7340	1 0 1 0 1 1 1 0 1 0 1 0 0 0 1 0	0 0 1 1 1 1 1 0 0 0 0 1
20 800	7240	1 0 1 0 1 1 1 0 0 0 1 0 0 0 1 0	0 0 1 1 1 0 1 0 0 0 0 1
20 900	7260	1 0 1 1 1 1 1 0 0 0 1 0 0 0 1 0	0 0 1 1 1 0 1 0 0 0 1 1
21 000	7220	1 0 1 1 1 0 1 0 0 0 1 0 0 0 1 0	0 0 1 1 1 0 1 0 0 0 1 0
21 100	7230	1 1 1 1 1 0 1 0 0 0 1 0 0 0 1 0	0 0 1 1 1 0 1 0 0 0 1 0
21 200	7210	1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 0	0 0 1 1 1 0 1 0 0 0 1 0
21 300	7610	1 1 1 0 1 0 1 0 0 0 1 0 1 0 1 0	0 0 1 1 1 0 1 1 1 0 0 0
21 400	7630	1 1 1 1 1 0 1 0 0 0 1 0 1 0 1 0	0 0 1 1 1 0 1 1 1 1 0 0
21 500	7620	1 0 1 1 1 0 1 0 0 0 1 0 1 0 1 0	0 0 1 1 1 0 1 1 0 1 0 0
21 600	7660	1 0 1 1 1 1 1 0 0 0 1 0 1 0 1 0	0 0 1 1 1 0 1 1 0 1 0 1
21 700	7640	1 0 1 0 1 1 1 0 0 0 1 0 1 0 1 0	0 0 1 1 1 0 1 1 0 0 0 1
21 800	7440	1 0 1 0 1 1 1 0 0 0 0 0 1 0 1 0	0 0 1 1 1 0 0 1 0 0 0 1
21 900	7460	1 0 1 1 1 1 1 0 0 0 0 0 1 0 1 0	0 0 1 1 1 0 0 1 0 0 1 1
22 000	7420	1 0 1 1 1 0 1 0 0 0 0 0 1 0 1 0	0 0 1 1 1 0 0 1 0 0 1 0
22 100	7430	1 1 1 1 1 0 1 0 0 0 0 0 1 0 1 0	0 0 1 1 1 0 0 1 0 1 1 0
22 200	7410	1 1 1 0 1 0 1 0 0 0 0 0 1 0 1 0	0 0 1 1 1 0 0 1 1 0 0 0
22 300	7010	1 1 1 0 1 0 1 0 0 0 0 0 0 0 1 0	0 0 1 1 1 0 0 0 0 1 0 0
22 400	7030	1 1 1 1 1 0 1 0 0 0 0 0 0 0 1 0	0 0 1 1 1 0 0 0 0 1 1 0
22 500	7020	1 0 1 1 1 0 1 0 0 0 0 0 0 0 1 0	0 0 1 1 1 0 0 0 0 0 1 0
22 600	7060	1 0 1 1 1 1 1 0 0 0 0 0 0 0 1 0	0 0 1 1 1 0 0 0 0 0 1 1
22 700	7040	1 0 1 0 1 1 1 0 0 0 0 0 0 0 1 0	0 0 1 1 1 0 0 0 0 0 1 1
22 800	5040	1 0 1 0 0 0 1 1 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 0 1
22 900	5060	1 0 1 0 0 1 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 1
23 000	5020	1 0 1 1 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 0
23 100	5030	1 1 1 1 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 0
23 200	5010	1 1 1 0 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 0
23 300	5410	1 1 1 0 0 0 1 0 0 0 0 0 1 0 1 0	0 0 1 0 1 0 0 0 1 1 0 0
23 400	5430	1 1 1 1 0 0 1 0 0 0 0 0 1 0 1 0	0 0 1 0 1 0 0 0 1 1 1 0
23 500	5420	1 0 1 1 0 0 1 0 0 0 0 0 1 0 1 0	0 0 1 0 1 0 0 0 1 0 1 0
23 600	5460	1 0 1 1 0 1 1 0 0 0 0 0 1 0 1 0	0 0 1 0 1 0 0 0 1 0 1 1
23 700	5440	1 0 1 0 0 0 1 1 0 0 0 0 1 0 1 0	0 0 1 0 1 0 0 0 1 0 0 1
23 800	5640	1 0 1 0 0 1 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 0 0 1
23 900	5660	1 0 1 1 0 1 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 0 1 1
24 000	5620	1 0 1 1 0 0 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 0 1 0
24 100	5630	1 1 1 1 0 0 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 1 1 0
24 200	5610	1 1 1 0 0 0 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 1 0 0
24 300	5210	1 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0	0 0 1 0 1 0 1 0 1 0 0 0
24 400	5230	1 1 1 1 0 0 1 0 0 0 1 0 0 0 1 0	0 0 1 0 1 0 1 0 1 0 1 0
24 500	5220	1 0 1 1 0 0 1 0 0 0 1 0 0 0 1 0	0 0 1 0 1 0 1 0 1 0 1 0
24 600	5260	1 0 1 1 0 1 1 0 0 0 1 0 0 0 1 0	0 0 1 0 1 0 1 0 1 0 1 1
24 700	5240	1 0 1 0 0 1 1 0 0 0 1 0 0 0 1 0	0 0 1 0 1 0 1 0 1 0 0 1
24 800	5240	1 0 1 0 0 1 1 0 0 0 1 0 0 0 1 0	0 0 1 0 1 0 1 1 1 0 0 0
24 900	5360	1 0 1 1 0 0 1 0 1 0 1 0 0 0 1 0	0 0 1 0 1 0 1 1 1 0 0 1
25 000	5320	1 0 1 1 0 0 1 0 1 0 1 0 0 0 1 0	0 0 1 0 1 0 1 1 1 0 0 1
25 100	5330	1 1 1 1 0 0 1 0 1 0 1 0 0 0 1 0	0 0 1 0 1 0 1 1 1 0 0 1
25 200	5310	1 1 1 0 0 0 1 0 1 0 1 0 0 0 1 0	0 0 1 0 1 0 1 1 1 0 0 0
25 300	5710	1 1 1 0 0 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0 0
25 400	5730	1 1 1 1 0 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 1 0
25 500	5720	1 0 1 1 0 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0 0
25 600	5760	1 0 1 1 0 1 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0 1
25 700	5740	1 0 1 0 0 1 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0 0
25 800	5540	1 0 1 0 0 1 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 0 1 0 1
25 900	5560	1 0 1 1 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 1 0 1
26 000	5520	1 0 1 1 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 1 0 0
26 100	5530	1 1 1 1 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 1 1 0
26 200	5510	1 1 1 0 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 1 0 0
26 300	5110	1 1 1 0 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 0 0 0
26 400	5130	1 1 1 1 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 0 1 0
26 500	5120	1 0 1 1 0 0 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 0 1 0
26 600	5160	1 0 1 1 0 1 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 0 1 1
26 700	5140	1 0 1 0 0 1 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 0 1 1 0 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
26 800	1140	1 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 1 0 0 0 0 0 1
26 900	1160	1 0 1 1 0 1 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 1 0 0 0 0 0 1
27 000	1120	1 0 1 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 1 0 0 0 0 0 1
27 100	1130	1 1 1 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 1 0 0 0 0 0 1
27 200	1110	1 1 1 0 0 0 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 1 0 0 0 0 0 1
27 300	1510	1 1 1 0 0 0 0 0 1 0 0 0 0 1 1 0	0 0 1 0 0 1 0 0 1 1 0 0
27 400	1530	1 1 1 1 0 0 0 0 1 0 0 0 0 1 1 0	0 0 1 0 0 1 0 0 1 1 1 0
27 500	1520	1 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0	0 0 1 0 0 1 0 0 1 0 1 0
27 600	1560	1 0 1 1 0 1 0 0 1 0 0 0 0 1 1 0	0 0 1 0 0 1 0 0 1 0 1 1
27 700	1540	1 0 1 0 0 1 0 0 1 0 0 0 0 1 1 0	0 0 1 0 0 1 0 0 1 0 0 1
27 800	1740	1 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 1 1 1 0 0 1
27 900	1760	1 0 1 1 0 1 0 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 1 1 1 0 1 1
28 000	1720	1 0 1 1 0 0 0 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 1 1 1 0 1 0
28 100	1730	1 1 1 1 0 0 0 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 1 1 1 1 1 0
28 200	1710	1 1 1 0 0 0 0 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 1 1 1 1 0 0
28 300	1310	1 1 1 0 0 0 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 1 0 0 0
28 400	1330	1 1 1 1 0 0 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 1 1 1 0
28 500	1320	1 0 1 1 0 0 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 0 0 1 0
28 600	1360	1 0 1 1 0 1 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 0 0 1 1
28 700	1340	1 0 1 0 0 1 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 0 0 0 1
28 800	1240	1 0 1 0 0 1 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 0 0 1
28 900	1260	1 0 1 1 0 1 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 0 1 1
29 000	1220	1 0 1 1 0 0 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 0 1 0
29 100	1230	1 1 1 1 0 0 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 1 1 0
29 200	1210	1 1 1 0 0 0 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 1 0 0
29 300	1610	1 1 1 0 0 0 0 0 0 0 1 0 1 0 1 0	0 0 1 0 0 0 1 1 1 1 0 0
29 400	1630	1 1 1 1 0 0 0 0 0 0 1 0 1 0 1 0	0 0 1 0 0 0 1 1 1 1 1 0
29 500	1620	1 0 1 1 0 0 0 0 0 0 1 0 1 0 1 0	0 0 1 0 0 0 1 1 0 1 0 0
29 600	1660	1 0 1 1 0 1 0 0 0 0 1 0 1 0 1 0	0 0 1 0 0 0 1 1 0 1 1 1
29 700	1640	1 0 1 0 0 1 0 0 0 0 1 0 1 0 1 0	0 0 1 0 0 0 1 1 0 0 0 1
29 800	1440	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 0 0 1
29 900	1460	1 0 1 1 0 1 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 0 1 1
30 000	1420	1 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 0 1 0
30 100	1430	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 1 1 0
30 200	1410	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 1 0 0
30 300	1010	1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0	0 0 1 0 0 0 0 0 1 0 0 0
30 400	1030	1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0	0 0 1 0 0 0 0 0 1 1 1 0
30 500	1020	1 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0	0 0 1 0 0 0 0 0 0 0 1 0
30 600	1060	1 0 1 1 0 1 0 0 0 0 0 0 0 0 1 0	0 0 1 0 0 0 0 0 0 0 1 1
30 700	1040	1 0 1 0 0 1 0 0 0 0 0 0 0 0 1 0	0 0 1 0 0 0 0 0 0 0 0 1
30 800	1044*	1 0 1 0 0 1 0 0 0 0 0 0 0 0 1 1	0 1 1 0 0 0 0 0 0 0 0 1
30 900	1064*	1 0 1 1 0 1 0 0 0 0 0 0 0 0 1 1	0 1 1 0 0 0 0 0 0 0 1 1
31 000	1024*	1 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1	0 1 1 0 0 0 0 0 0 0 1 1
31 100	1034*	1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1	0 1 1 0 0 0 0 0 0 0 1 1
31 200	1014*	1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1	0 1 1 0 0 0 0 0 0 0 1 1
31 300	1414*	1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 1 1 1
31 400	1434*	1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 1 1 1
31 500	1424*	1 0 1 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 0 1 1
31 600	1464*	1 0 1 1 0 1 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 0 1 1
31 700	1444*	1 0 1 0 0 1 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 0 0 1
31 800	1644*	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 0 1
31 900	1664*	1 0 1 1 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 1 1
32 000	1624*	1 0 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 1 0
32 100	1634*	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 1 0
32 200	1614*	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 0 0
32 300	1214*	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 0 1 0 0
32 400	1234*	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 0 1 1 0
32 500	1224*	1 0 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 0 0 1 0
32 600	1264*	1 0 1 1 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 0 0 1 1
32 700	1244*	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 0 0 0 1
32 800	1344*	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 0 1
32 900	1364*	1 0 1 1 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 1 1
33 000	1324*	1 0 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 0 0 1 0
33 100	1334*	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 1 0
33 200	1314*	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 0 1 0
33 300	1714*	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 1 0
33 400	1734*	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 1 1
33 500	1724*	1 0 1 1 0 0 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 0 0
33 600	1764*	1 0 1 1 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 0 1
33 700	1744*	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 1	0 1 1 0 0 0 0 1 1 1 0 0

TABLE 1

HEIGHT	EQUIV - ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
33 800	1544*	1 0 1 0 0 1 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 0 1
33 900	1564*	1 0 1 1 0 1 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 0 1
34 000	1524*	1 0 1 1 0 0 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 0 1
34 100	1534*	1 1 1 1 0 0 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 0 1
34 200	1514*	1 1 1 0 0 0 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 0 1
34 300	1114*	1 1 1 0 0 0 0 0 1 0 0 0 0 1 1 1	0 1 1 0 0 1 0 0 0 1
34 400	1134*	1 1 1 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 1 0 0 1 0 0 0 1
34 500	1124*	1 0 1 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 1 0 0 1 0 0 0 1
34 600	1164*	1 0 1 1 0 1 0 0 1 0 0 0 0 1 1 1	0 1 1 0 0 1 0 0 0 1
34 700	1144*	1 0 1 0 0 1 0 0 1 0 0 0 0 1 1 1	0 1 1 0 0 1 0 0 0 1
34 800	5144*	1 0 1 0 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
34 900	5164*	1 0 1 1 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 000	5124*	1 0 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 100	5134*	1 1 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 200	5114*	1 1 1 0 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 300	5514*	1 1 1 0 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 400	5534*	1 1 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 500	5524*	1 0 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 600	5564*	1 0 1 1 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 700	5544*	1 0 1 0 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 800	5744*	1 0 1 0 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
35 900	5764*	1 0 1 1 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 000	5724*	1 0 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 100	5734*	1 1 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 200	5714*	1 1 1 0 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 300	5314*	1 1 1 0 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 400	5334*	1 1 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 500	5324*	1 0 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 600	5364*	1 0 1 1 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 700	5344*	1 0 1 0 0 1 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0
36 800	5244*	1 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
36 900	5264*	1 0 1 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 000	5224*	1 0 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 100	5234*	1 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 200	5214*	1 1 1 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 300	5614*	1 1 1 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 400	5634*	1 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 500	5624*	1 0 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 600	5664*	1 0 1 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 700	5644*	1 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 800	5444*	1 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
37 900	5464*	1 0 1 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 000	5424*	1 0 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 100	5434*	1 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 200	5414*	1 1 1 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 300	5014*	1 1 1 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 400	5034*	1 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 500	5024*	1 0 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 600	5064*	1 0 1 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 700	5044*	1 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0
38 800	7044*	1 0 1 0 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
38 900	7064*	1 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 000	7024*	1 0 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 100	7034*	1 1 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 200	7014*	1 1 1 0 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 300	7414*	1 1 1 0 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 400	7434*	1 1 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 500	7424*	1 0 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 600	7444*	1 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 700	7464*	1 0 1 0 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 800	7644*	1 0 1 0 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
39 900	7664*	1 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 000	7624*	1 0 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 100	7634*	1 1 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 200	7614*	1 1 1 0 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 300	7214*	1 1 1 0 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 400	7234*	1 1 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 500	7224*	1 0 1 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 600	7264*	1 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0
40 700	7244*	1 0 1 0 1 1 1 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0

TABLE 1

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
40 800	7344*	1 0 1 0 1 1 1 0 1 0 1 0 0 1 1 1	0 1 1 1 1 1 1 0 0 0 1
40 900	7364*	1 0 1 1 1 1 1 0 1 0 1 0 0 1 1 1	0 1 1 1 1 1 1 0 0 0 1 1
41 000	7324*	1 0 1 1 1 0 1 0 1 0 1 0 0 1 1 1	0 1 1 1 1 1 1 0 0 0 1 0
41 100	7334*	1 1 1 1 1 0 1 0 1 0 1 0 0 1 1 1	0 1 1 1 1 1 1 0 0 1 1 0
41 200	7314*	1 1 1 0 1 0 1 0 1 0 1 0 0 1 1 1	0 1 1 1 1 1 1 0 1 0 0 0
41 300	7714*	1 1 1 0 1 0 1 0 1 0 1 0 1 1 1 1	0 1 1 1 1 1 1 1 1 1 0 0
41 400	7734*	1 1 1 1 1 0 1 0 1 0 1 0 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 0
41 500	7724*	1 0 1 1 1 0 1 0 1 0 1 0 1 1 1 1	0 1 1 1 1 1 1 1 1 0 1 0
41 600	7764*	1 0 1 1 1 1 1 0 1 0 1 0 1 1 1 1	0 1 1 1 1 1 1 1 1 0 1 1
41 700	7744*	1 0 1 0 1 1 1 0 1 0 1 0 1 1 1 1	0 1 1 1 1 1 1 1 1 0 0 1
41 800	7544*	1 0 1 0 1 1 1 0 1 0 0 0 1 1 1 1	0 1 1 1 1 1 1 0 1 0 0 1
41 900	7564*	1 0 1 1 1 1 1 0 1 0 0 0 1 1 1 1	0 1 1 1 1 1 1 0 1 0 1 1
42 000	7524*	1 0 1 1 1 0 1 0 1 0 0 0 1 1 1 1	0 1 1 1 1 1 1 0 1 0 1 0
42 100	7534*	1 1 1 1 1 0 1 0 1 0 0 0 1 1 1 1	0 1 1 1 1 1 1 0 1 1 1 0
42 200	7514*	1 1 1 0 1 0 1 0 1 0 0 0 1 1 1 1	0 1 1 1 1 1 1 0 1 1 0 0
42 300	7114*	1 1 1 0 1 0 1 0 1 0 0 0 0 1 1 1	0 1 1 1 1 1 1 0 0 1 0 0
42 400	7124*	1 1 1 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 1 1 1 1 1 0 0 1 1 0
42 500	7124*	1 0 1 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 1 1 1 1 1 0 0 0 1 0
42 600	7164*	1 0 1 1 1 1 1 0 1 0 0 0 0 1 1 1	0 1 1 1 1 1 1 0 0 0 1 1
42 700	7144*	1 0 1 0 1 1 1 0 1 0 0 0 0 1 1 1	0 1 1 1 1 1 1 0 0 0 0 1
42 800	3144*	1 0 1 0 1 1 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 0 0 0 1
42 900	3164*	1 0 1 1 1 1 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 0 0 1 1
43 000	3124*	1 0 1 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 0 0 1 0
43 100	3134*	1 1 1 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 0 1 1 0
43 200	3114*	1 1 1 0 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 0 1 0 0
43 300	3514*	1 1 1 0 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 1 1 0 0
43 400	3534*	1 1 1 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 1 1 1 0
43 500	3524*	1 0 1 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 1 0 1 0
43 600	3564*	1 0 1 1 1 1 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 1 0 1 1
43 700	3544*	1 0 1 0 1 1 0 0 1 0 0 0 0 1 1 1	0 1 1 1 1 0 1 0 1 0 0 1
43 800	3744*	1 0 1 0 1 1 0 0 1 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 0 0 1
43 900	3764*	1 0 1 1 1 1 0 0 1 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 0 1 1
44 000	3724*	1 0 1 1 1 0 0 0 1 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 0 1 0
44 100	3734*	1 1 1 1 1 0 0 0 1 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 1 1 0
44 200	3714*	1 1 1 0 1 0 0 0 1 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 1 0 0
44 300	3314*	1 1 1 0 1 0 0 0 1 0 1 0 0 1 1 1	0 1 1 1 1 0 1 1 0 1 0 0
44 400	3334*	1 1 1 1 1 0 0 0 1 0 1 0 0 1 1 1	0 1 1 1 1 0 1 1 0 1 1 0
44 500	3324*	1 0 1 1 1 0 0 0 1 0 1 0 0 1 1 1	0 1 1 1 1 0 1 1 0 0 1 0
44 600	3364*	1 0 1 1 1 1 0 0 1 0 1 0 0 1 1 1	0 1 1 1 1 0 1 1 0 0 1 1
44 700	3344*	1 0 1 0 1 1 0 0 1 0 1 0 0 1 1 1	0 1 1 1 1 0 1 1 0 0 0 1
44 800	3244*	1 0 1 0 1 1 0 0 0 0 1 0 0 1 1 1	0 1 1 1 1 0 1 0 0 0 0 1
44 900	3264*	1 0 1 1 1 1 0 0 0 0 1 0 0 1 1 1	0 1 1 1 1 0 1 0 0 0 1 1
45 000	3224*	1 0 1 1 1 0 0 0 0 0 1 0 0 1 1 1	0 1 1 1 1 0 1 0 0 0 1 0
45 100	3234*	1 1 1 1 1 0 0 0 0 0 1 0 0 1 1 1	0 1 1 1 1 0 1 0 0 1 1 0
45 200	3214*	1 1 1 0 1 0 0 0 0 0 1 0 0 1 1 1	0 1 1 1 1 0 1 0 0 1 0 0
45 300	3614*	1 1 1 0 1 0 0 0 0 0 1 0 1 1 1 1	0 1 1 1 1 0 1 0 1 1 0 0
45 400	3634*	1 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 1 1 0
45 500	3624*	1 0 1 1 1 0 0 0 0 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 0 1 0
45 600	3664*	1 0 1 1 1 1 0 0 0 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 0 1 1
45 700	3644*	1 0 1 0 1 1 0 0 0 0 1 0 1 1 1 1	0 1 1 1 1 0 1 1 1 0 0 1
45 800	3444*	1 0 1 0 1 1 0 0 0 0 0 0 1 1 1 1	0 1 1 1 1 0 0 0 1 0 0 1
45 900	3464*	1 0 1 1 1 1 0 0 0 0 0 0 1 1 1 1	0 1 1 1 1 0 0 0 1 0 1 1
46 000	3424*	1 0 1 1 1 0 0 0 0 0 0 0 1 1 1 1	0 1 1 1 1 0 0 0 1 0 1 0
46 100	3434*	1 1 1 1 1 0 0 0 0 0 0 0 1 1 1 1	0 1 1 1 1 0 0 0 1 1 1 0
46 200	3414*	1 1 1 0 1 0 0 0 0 0 0 0 1 1 1 1	0 1 1 1 1 0 0 0 1 1 0 0
46 300	3014*	1 1 1 0 1 0 0 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 1 0 0
46 400	3034*	1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 1 1 0
46 500	3024*	1 0 1 1 1 0 0 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0 1 0
46 600	3064*	1 0 1 1 1 1 0 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0 1 1
46 700	3044*	1 0 1 0 1 1 0 0 0 0 0 0 0 1 1 1	0 1 1 1 1 0 0 0 0 0 0 1
46 800	2044*	1 0 0 0 1 1 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 0 0 0 1
46 900	2064*	1 0 0 1 1 1 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 0 0 1 1
47 000	2024*	1 0 0 1 1 0 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 0 0 1 0
47 100	2034*	1 1 0 1 1 0 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 0 1 1 0
47 200	2014*	1 1 0 0 1 0 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 0 1 0 0
47 300	2414*	1 1 0 0 1 0 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 1 1 0 0
47 400	2434*	1 1 0 1 1 0 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 1 1 1 0
47 500	2424*	1 0 0 1 1 0 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 1 0 1 0
47 600	2464*	1 0 0 1 1 1 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 1 0 1 1
47 700	2444*	1 0 0 0 1 1 0 0 0 0 0 0 0 1 1 1	0 1 0 1 0 0 0 0 1 0 0 1

TABLE 1

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> C <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
47 800	2644*	1 0 0 0 1 1 0 0 0 0 1 0 1 1 1 1	0 1 0 1 0 0 1 1 0 0 1
47 900	2664*	1 0 0 1 1 1 0 0 0 0 1 0 1 1 1 1	0 1 0 1 0 0 1 1 0 1 1
48 000	2624*	1 0 0 1 1 0 0 0 0 0 1 0 1 1 1 1	0 1 0 1 0 0 1 1 0 1 0
48 100	2634*	1 1 0 1 1 0 0 0 0 0 1 0 1 1 1 1	0 1 0 1 0 0 1 1 1 1 0
48 200	2614*	1 1 0 0 1 0 0 0 0 0 1 0 1 1 1 1	0 1 0 1 0 0 1 1 1 0 0
48 300	2214*	1 1 0 0 1 0 0 0 0 0 1 0 0 1 1 1	0 1 0 1 0 0 1 0 1 0 0
48 400	2234*	1 1 0 1 1 0 0 0 0 0 1 0 0 1 1 1	0 1 0 1 0 0 1 0 1 1 0
48 500	2224*	1 0 0 1 1 0 0 0 0 0 1 0 0 1 1 1	0 1 0 1 0 0 1 0 0 1 0
48 600	2264*	1 0 0 1 1 1 0 0 0 0 1 0 0 1 1 1	0 1 0 1 0 0 1 0 0 1 1
48 700	2244*	1 0 0 0 1 1 0 0 0 0 1 0 0 1 1 1	0 1 0 1 0 0 1 0 0 0 1
48 800	2344*	1 0 0 0 1 1 0 0 1 0 1 0 0 1 1 1	0 1 0 1 0 1 1 0 0 0 1
48 900	2364*	1 0 0 1 1 1 0 0 1 0 1 0 0 1 1 1	0 1 0 1 0 1 1 0 0 1 1
49 000	2324*	1 0 0 1 1 0 0 0 1 0 1 0 0 1 1 1	0 1 0 1 0 1 1 0 0 1 0
49 100	2334*	1 1 0 1 1 0 0 0 1 0 1 0 0 1 1 1	0 1 0 1 0 1 1 0 1 1 0
49 200	2314*	1 1 0 0 1 0 0 0 1 0 1 0 0 1 1 1	0 1 0 1 0 1 1 0 1 0 0
49 300	2714*	1 1 0 0 1 0 0 0 1 0 1 0 1 1 1 1	0 1 0 1 0 1 1 1 1 0 0
49 400	2734*	1 1 0 1 1 0 0 0 1 0 1 0 1 1 1 1	0 1 0 1 0 1 1 1 1 1 0
49 500	2724*	1 0 0 1 1 0 0 0 1 0 1 0 1 1 1 1	0 1 0 1 0 1 1 1 1 0 0
49 600	2764*	1 0 0 1 1 1 0 0 1 0 1 0 1 1 1 1	0 1 0 1 0 1 1 1 1 0 1
49 700	2744*	1 0 0 0 1 1 0 0 1 0 1 0 1 1 1 1	0 1 0 1 0 1 1 1 0 0 1
49 800	2544*	1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 1	0 1 0 1 0 1 0 1 0 0 1
49 900	2564*	1 0 0 1 1 1 0 0 1 0 0 0 1 1 1 1	0 1 0 1 0 1 0 1 0 1 1
50 000	2524*	1 0 0 1 1 0 0 0 1 0 0 0 1 1 1 1	0 1 0 1 0 1 0 1 0 1 0
50 100	2534*	1 1 0 1 1 0 0 0 1 0 0 0 1 1 1 1	0 1 0 1 0 1 0 1 0 1 0
50 200	2514*	1 1 0 0 1 0 0 0 1 0 0 0 1 1 1 1	0 1 0 1 0 1 0 1 0 0 0
50 300	2114*	1 1 0 0 1 0 0 0 1 0 0 0 0 1 1 1	0 1 0 1 0 1 0 0 0 1 0
50 400	2134*	1 1 0 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 0 1 0 1 0 0 0 1 0
50 500	2124*	1 0 0 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 0 1 0 1 0 0 0 1 0
50 600	2164*	1 0 0 1 1 1 0 0 1 0 0 0 0 1 1 1	0 1 0 1 0 1 0 0 0 1 1
50 700	2144*	1 0 0 1 1 1 0 0 1 0 0 0 0 1 1 1	0 1 0 1 0 1 0 0 0 0 1
50 800	6144*	1 0 0 0 1 1 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 1
50 900	6164*	1 0 0 1 1 1 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 1
51 000	6124*	1 0 0 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 0
51 100	6134*	1 1 0 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 0
51 200	6114*	1 1 0 0 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 0
51 300	6514*	1 1 0 0 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 1 1 0 0
51 400	6534*	1 1 0 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 1 1 1 0
51 500	6524*	1 0 0 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 1 0 1 0
51 600	6564*	1 0 0 1 1 1 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 1 0 1 1
51 700	6544*	1 0 0 0 1 1 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 1 0 0 1
51 800	6744*	1 0 0 0 1 1 1 0 1 0 1 0 1 1 1 1	0 1 0 1 1 1 1 1 1 0 0 1
51 900	6764*	1 0 0 1 1 1 1 0 1 0 1 0 1 1 1 1	0 1 0 1 1 1 1 1 1 0 1 1
52 000	6724*	1 0 0 1 1 1 0 1 0 1 0 1 0 1 1 1	0 1 0 1 1 1 1 1 1 0 1 0
52 100	6734*	1 1 0 1 1 1 0 1 0 1 0 1 1 1 1 1	0 1 0 1 1 1 1 1 1 1 1 0
52 200	6714*	1 1 0 0 1 1 0 1 0 1 0 1 1 1 1 1	0 1 0 1 1 1 1 1 1 1 0 0
52 300	6314*	1 1 0 0 1 0 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 1 0 1 0 0
52 400	6334*	1 1 0 1 1 0 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 1 0 1 1 0
52 500	6324*	1 0 0 1 1 0 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 1 0 0 1 0
52 600	6364*	1 0 0 1 1 1 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 1 0 0 1 1
52 700	6344*	1 0 0 0 1 1 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 1 0 0 0 1
52 800	6244*	1 0 0 0 1 1 1 0 0 0 1 0 0 1 1 1	0 1 0 1 1 1 0 1 0 0 0 1
52 900	6264*	1 0 0 1 1 1 1 0 0 0 1 0 0 1 1 1	0 1 0 1 1 1 0 1 0 0 1 1
53 000	6224*	1 0 0 1 1 1 0 0 0 0 1 0 0 1 1 1	0 1 0 1 1 1 0 1 0 0 1 0
53 100	6234*	1 1 0 1 1 0 1 0 0 0 1 0 0 1 1 1	0 1 0 1 1 1 0 1 0 1 1 0
53 200	6214*	1 1 0 0 1 0 1 0 0 0 1 0 0 1 1 1	0 1 0 1 1 1 0 1 0 0 0
53 300	6614*	1 1 0 0 1 0 1 0 0 0 1 0 1 1 1 1	0 1 0 1 1 1 0 1 1 0 0
53 400	6634*	1 1 0 1 1 0 1 0 0 0 1 0 1 1 1 1	0 1 0 1 1 1 0 1 1 1 0
53 500	6624*	1 0 0 1 1 0 1 0 0 0 1 0 1 1 1 1	0 1 0 1 1 1 0 1 1 0 0
53 600	6664*	1 0 0 1 1 1 1 0 0 0 1 0 1 1 1 1	0 1 0 1 1 1 0 1 1 0 1
53 700	6644*	1 0 0 0 1 1 1 0 0 0 1 0 1 1 1 1	0 1 0 1 1 1 0 1 0 0 1
53 800	6444*	1 0 0 0 1 1 1 0 0 0 0 0 1 1 1 1	0 1 0 1 1 1 0 0 1 0 0 1
53 900	6464*	1 0 0 1 1 1 1 0 0 0 0 0 1 1 1 1	0 1 0 1 1 1 0 0 1 0 1 1
54 000	6424*	1 0 0 1 1 1 0 0 0 0 0 0 1 1 1 1	0 1 0 1 1 1 0 0 1 0 1 0
54 100	6434*	1 1 0 1 1 1 0 0 0 0 0 0 1 1 1 1	0 1 0 1 1 1 0 0 1 1 1 0
54 200	6414*	1 1 0 0 1 1 0 0 0 0 0 0 1 1 1 1	0 1 0 1 1 1 0 0 1 1 0 0
54 300	6014*	1 1 0 0 1 0 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 0 0
54 400	6034*	1 1 0 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 1 0
54 500	6024*	1 0 0 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 1 0
54 600	6064*	1 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 1 1
54 700	6044*	1 0 0 0 1 1 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
54 800	4044*	1 0 0 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 0 0 0 1
54 900	4064*	1 0 0 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 0 0 0 1 1
55 000	4024*	1 0 0 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 0 0 0 1 0
55 100	4034*	1 1 0 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 0 0 0 1 1 0
55 200	4014*	1 1 0 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 0 0 0 1 0 0
55 300	4414*	1 1 0 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 1 1 1 0 0
55 400	4434*	1 1 0 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 1 1 1 1 1
55 500	4424*	1 0 0 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 1 1 1 1 0
55 600	4464*	1 0 0 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 1 0 1 1 1
55 700	4444*	1 0 0 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 0 0 1 0 0 0 1 0 0 1 0 1
55 800	4644*	1 0 0 0 0 1 1 0 0 0 0 1 0 1 1 1	0 1 0 0 1 0 1 1 1 0 0 0 1
55 900	4664*	1 0 0 1 0 1 1 0 0 0 0 1 0 1 1 1	0 1 0 0 1 0 1 1 1 0 1 1 1
56 000	4624*	1 0 0 1 0 0 1 0 0 0 0 1 0 1 1 1	0 1 0 0 1 0 1 1 1 0 1 1 0
56 100	4634*	1 1 0 1 0 0 1 0 0 0 0 1 0 1 1 1	0 1 0 0 1 0 1 1 1 1 1 1 0
56 200	4614*	1 1 0 0 0 0 1 0 0 0 0 1 0 1 1 1	0 1 0 0 1 0 1 1 1 1 1 0 0
56 300	4214*	1 1 0 0 0 0 1 0 0 0 0 1 0 0 1 1	0 1 0 0 1 0 1 0 1 0 1 0 0
56 400	4234*	1 1 0 1 0 0 1 0 0 0 0 1 0 0 1 1	0 1 0 0 1 0 1 0 1 0 1 1 0
56 500	4224*	1 0 0 1 0 0 1 0 0 0 0 1 0 0 1 1	0 1 0 0 1 0 1 0 1 0 0 1 0
56 600	4264*	1 0 0 1 0 1 1 0 0 0 0 1 0 0 1 1	0 1 0 0 1 0 1 0 1 0 0 1 1
56 700	4244*	1 0 0 0 0 1 1 0 0 0 0 1 0 0 1 1	0 1 0 0 1 0 1 0 1 0 0 0 1
56 800	4344*	1 0 0 0 0 1 1 0 1 0 0 1 0 0 1 1	0 1 0 0 1 1 1 1 0 0 0 0 1
56 900	4364*	1 0 0 1 0 1 1 0 1 0 0 1 0 0 1 1	0 1 0 0 1 1 1 1 0 0 0 1 1
57 000	4324*	1 0 0 1 0 0 1 0 1 0 0 1 0 0 1 1	0 1 0 0 1 1 1 1 0 0 0 1 0
57 100	4334*	1 1 0 1 0 0 1 0 1 0 0 1 0 0 1 1	0 1 0 0 1 1 1 1 0 0 1 1 0
57 200	4314*	1 1 0 0 0 0 1 0 1 0 0 1 0 0 1 1	0 1 0 0 1 1 1 1 0 0 1 0 0
57 300	4714*	1 1 0 0 0 0 1 0 1 0 0 1 0 1 1 1	0 1 0 0 1 1 1 1 1 1 0 0
57 400	4734*	1 1 0 1 0 0 1 0 1 0 0 1 0 1 1 1	0 1 0 0 1 1 1 1 1 1 1 1 0
57 500	4724*	1 0 0 1 0 0 1 0 1 0 0 1 0 1 1 1	0 1 0 0 1 1 1 1 1 1 0 1 0
57 600	4764*	1 0 0 1 0 1 1 0 1 0 0 1 0 1 1 1	0 1 0 0 1 1 1 1 1 1 0 1 1
57 700	4744*	1 0 0 0 0 1 1 0 1 0 0 1 0 1 1 1	0 1 0 0 1 1 1 1 1 1 0 0 1
57 800	4544*	1 0 0 0 0 1 1 0 1 0 0 0 0 1 1 1	0 1 0 0 1 1 1 1 0 1 0 0 1
57 900	4564*	1 0 0 1 0 1 1 0 1 0 0 0 0 1 1 1	0 1 0 0 1 1 1 1 0 1 0 1 1
58 000	4524*	1 0 0 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 0 0 1 1 1 1 0 1 0 1 0
58 100	4534*	1 1 0 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 0 0 1 1 1 1 0 1 1 1 0
58 200	4514*	1 1 0 0 0 0 1 0 1 0 0 0 0 1 1 1	0 1 0 0 1 1 1 1 0 1 1 0 0
58 300	4114*	1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 1	0 1 0 0 1 1 0 0 1 0 0 0 0
58 400	4134*	1 1 0 1 0 0 1 0 1 0 0 0 0 0 1 1	0 1 0 0 1 1 0 0 1 0 0 1 0
58 500	4124*	1 0 0 1 0 0 1 0 1 0 0 0 0 0 1 1	0 1 0 0 1 1 0 0 0 0 0 1 0
58 600	4164*	1 0 0 1 0 1 1 0 1 0 0 0 0 0 1 1	0 1 0 0 1 1 0 0 0 0 0 1 1
58 700	4144*	1 0 0 0 0 1 1 0 1 0 0 0 0 0 1 1	0 1 0 0 1 1 0 0 0 0 0 0 1
58 800	0144*	1 0 0 0 0 1 0 0 1 0 0 0 0 0 1 1	0 1 0 0 0 1 0 0 0 0 0 0 1
58 900	0164*	1 0 0 1 0 1 0 0 1 0 0 0 0 0 1 1	0 1 0 0 0 1 0 0 0 0 0 1 1
59 000	0124*	1 0 0 1 0 0 0 0 1 0 0 0 0 0 1 1	0 1 0 0 0 1 0 0 0 0 0 1 0
59 100	0134*	1 1 0 1 0 0 0 0 1 0 0 0 0 0 1 1	0 1 0 0 0 1 0 0 0 0 1 1 0
59 200	0114*	1 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1	0 1 0 0 0 1 0 0 0 0 1 0 0
59 300	0514*	1 1 0 0 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 1 1 1 0 0
59 400	0534*	1 1 0 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 1 1 1 1 0
59 500	0524*	1 0 0 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 1 0 1 1 0
59 600	0564*	1 0 0 1 0 1 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 1 0 1 1 1
59 700	0544*	1 0 0 0 0 1 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 1 0 0 1 1
59 800	0744*	1 0 0 0 0 1 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 0 0 0 1
59 900	0764*	1 0 0 1 0 1 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 0 0 1 1
60 000	0724*	1 0 0 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 0 1 1 0
60 100	0734*	1 1 0 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 1 1 1 0
60 200	0714*	1 1 0 0 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 1 1 0 0
60 300	0314*	1 1 0 0 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 0 1 0 0 0 0
60 400	0324*	1 1 0 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 0 1 0 1 1 0
60 500	0324*	1 0 0 1 0 0 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 0 0 0 1 1 0
60 600	0364*	1 0 0 1 0 1 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 0 0 0 1 1 1
60 700	0344*	1 0 0 0 0 1 0 0 1 0 0 0 0 1 1 1	0 1 0 0 0 1 1 0 0 0 0 1 1
60 800	0244*	1 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 0 0 0 0 1
60 900	0264*	1 0 0 1 0 1 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 0 0 0 1 1
61 000	0224*	1 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 0 0 0 1 0
61 100	0234*	1 1 0 1 0 0 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 0 0 1 1 0
61 200	0214*	1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 0 0 0 0 1 0 0
61 300	0614*	1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 1 0 0 0
61 400	0634*	1 1 0 1 0 0 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 1 1 1 1 0
61 500	0624*	1 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 0 1 1 1 0
61 600	0664*	1 0 0 1 0 1 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 0 1 1 1 1
61 700	0644*	1 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1	0 1 0 0 0 1 1 1 0 0 0 1 1

TABLE 1

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
61 800	0444*	1 0 0 0 0 1 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 1 0 0 1
61 900	0464*	1 0 0 1 0 1 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 1 0 1 1
62 000	0424*	1 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 1 0 1 0
62 100	0434*	1 1 0 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 1 1 1 0
62 200	0414*	1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 1 1 0 0
62 300	0014*	1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 1 0 0 0
62 400	0034*	1 1 0 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 0 0 1 0
62 500	0024*	1 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 0 0 1 0
62 600	0064*	1 0 0 1 0 1 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 0 0 1 1
62 700	0044*	1 0 0 0 0 1 0 0 0 0 0 0 1 1 1 1	0 1 0 0 0 0 0 0 0 0 1
62 800	0046*	1 0 0 0 0 1 0 0 0 0 0 0 1 0 1 1	1 1 0 0 0 0 0 0 0 0 1
62 900	0066*	1 0 0 1 0 1 0 0 0 0 0 0 1 0 1 1	1 1 0 0 0 0 0 0 0 1 1
63 000	0026*	1 0 0 1 0 0 0 0 0 0 0 0 1 0 1 1	1 1 0 0 0 0 0 0 0 1 0
63 100	0036*	1 1 0 1 0 0 0 0 0 0 0 0 1 0 1 1	1 1 0 0 0 0 0 0 0 1 0
63 200	0016*	1 1 0 0 0 0 0 0 0 0 0 0 1 0 1 1	1 1 0 0 0 0 0 0 0 1 0
63 300	0416*	1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1	1 1 0 0 0 0 0 1 1 0 0
63 400	0436*	1 1 0 1 0 0 0 0 0 0 0 0 1 1 1 1	1 1 0 0 0 0 0 1 1 0 0
63 500	0426*	1 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1	1 1 0 0 0 0 0 1 0 1 0
63 600	0466*	1 0 0 1 0 1 0 0 0 0 0 0 1 1 1 1	1 1 0 0 0 0 0 1 0 1 1
63 700	0446*	1 0 0 0 0 1 0 0 0 0 0 0 1 1 1 1	1 1 0 0 0 0 0 1 0 0 1
63 800	0646*	1 0 0 0 0 1 0 0 0 0 0 1 1 1 1 1	1 1 0 0 0 0 1 1 0 0 1
63 900	0666*	1 0 0 1 0 1 0 0 0 0 0 1 1 1 1 1	1 1 0 0 0 0 1 1 0 1 1
64 000	0626*	1 0 0 1 0 0 0 0 0 0 0 1 1 1 1 1	1 1 0 0 0 0 1 1 0 1 0
64 100	0636*	1 1 0 1 0 0 0 0 0 0 0 1 1 1 1 1	1 1 0 0 0 0 1 1 1 0 0
64 200	0616*	1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 1	1 1 0 0 0 0 1 1 1 0 0
64 300	0216*	1 1 0 0 0 0 0 0 0 0 0 1 1 0 1 1	1 1 0 0 0 0 1 0 1 0 0
64 400	0236*	1 1 0 1 0 0 0 0 0 0 0 1 1 0 1 1	1 1 0 0 0 0 1 0 1 1 0
64 500	0226*	1 0 0 1 0 0 0 0 0 0 0 1 1 0 1 1	1 1 0 0 0 0 1 0 0 1 0
64 600	0266*	1 0 0 1 0 1 0 0 0 0 0 1 1 0 1 1	1 1 0 0 0 0 1 0 0 1 1
64 700	0246*	1 0 0 0 0 1 0 0 0 0 0 1 1 0 1 1	1 1 0 0 0 0 1 0 0 0 1
64 800	0346*	1 0 0 0 0 1 0 0 0 1 0 1 1 0 1 1	1 1 0 0 0 1 1 0 0 0 1
64 900	0366*	1 0 0 1 0 1 0 0 0 1 0 1 1 0 1 1	1 1 0 0 0 1 1 0 0 1 1
65 000	0326*	1 0 0 1 0 0 0 0 0 1 0 1 1 0 1 1	1 1 0 0 0 1 1 0 0 1 0
65 100	0336*	1 1 0 1 0 0 0 0 0 1 0 1 1 0 1 1	1 1 0 0 0 1 1 0 1 1 0
65 200	0316*	1 1 0 0 0 0 0 0 0 1 0 1 1 0 1 1	1 1 0 0 0 1 1 0 1 0 0
65 300	0716*	1 1 0 0 0 0 0 0 0 1 0 1 1 1 1 1	1 1 0 0 0 1 1 1 1 0 0
65 400	0736*	1 1 0 1 0 0 0 0 0 1 0 1 1 1 1 1	1 1 0 0 0 1 1 1 1 1 0
65 500	0726*	1 0 0 1 0 0 0 0 0 1 0 1 1 1 1 1	1 1 0 0 0 1 1 1 0 1 0
65 600	0766*	1 0 0 1 0 1 0 0 0 1 0 1 1 1 1 1	1 1 0 0 0 1 1 1 0 1 1
65 700	0746*	1 0 0 0 0 1 0 0 0 1 0 1 1 1 1 1	1 1 0 0 0 1 1 0 0 0 1
65 800	0546*	1 0 0 0 0 1 0 0 0 1 0 0 1 1 1 1	1 1 0 0 0 1 0 1 0 0 1
65 900	0566*	1 0 0 1 0 1 0 0 0 1 0 0 1 1 1 1	1 1 0 0 0 1 0 1 0 1 1
66 000	0526*	1 0 0 1 0 0 0 0 0 1 0 0 1 1 1 1	1 1 0 0 0 1 0 1 0 1 0
66 100	0536*	1 1 0 1 0 0 0 0 0 1 0 0 1 1 1 1	1 1 0 0 0 1 0 1 1 1 0
66 200	0516*	1 1 0 0 0 0 0 0 0 1 0 0 1 1 1 1	1 1 0 0 0 1 0 1 1 0 0
66 300	0116*	1 1 0 0 0 0 0 0 0 1 0 0 1 0 1 1	1 1 0 0 0 1 0 0 0 0 0
66 400	0136*	1 1 0 1 0 0 0 0 0 1 0 0 1 0 1 1	1 1 0 0 0 1 0 0 0 1 0
66 500	0126*	1 0 0 1 0 0 0 0 0 1 0 0 1 0 1 1	1 1 0 0 0 1 0 0 0 1 0
66 600	0166*	1 0 0 1 0 1 0 0 0 1 0 0 1 0 1 1	1 1 0 0 0 1 0 0 0 1 1
66 700	0146*	1 0 0 0 0 1 0 0 0 1 0 0 1 0 1 1	1 1 0 0 0 1 0 0 0 0 1
66 800	4146*	1 0 0 0 0 1 1 0 0 1 0 0 1 0 1 1	1 1 0 0 1 1 0 0 0 0 1
66 900	4166*	1 0 0 1 0 1 1 0 0 1 0 0 1 0 1 1	1 1 0 0 1 1 0 0 0 1 1
67 000	4126*	1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 1	1 1 0 0 1 1 0 0 0 1 0
67 100	4136*	1 1 0 1 0 0 1 0 0 1 0 0 1 0 1 1	1 1 0 0 1 1 0 0 1 1 0
67 200	4116*	1 1 0 0 0 0 0 0 1 0 0 1 0 1 1 1	1 1 0 0 1 1 0 0 1 0 0
67 300	4516*	1 1 0 0 0 0 0 1 0 1 0 0 1 1 1 1	1 1 0 0 1 1 0 1 1 0 0
67 400	4536*	1 1 0 1 0 0 0 1 0 1 0 0 1 1 1 1	1 1 0 0 1 1 0 1 1 1 0
67 500	4526*	1 0 0 1 0 0 0 1 0 1 0 0 1 1 1 1	1 1 0 0 1 1 0 1 0 1 0
67 600	4566*	1 0 0 1 0 1 0 1 0 1 0 0 1 1 1 1	1 1 0 0 1 1 0 1 0 1 1
67 700	4546*	1 0 0 0 0 1 1 0 1 0 0 1 1 1 1 1	1 1 0 0 1 1 0 1 0 0 1
67 800	4746*	1 0 0 0 0 1 1 0 1 0 1 1 1 1 1 1	1 1 0 0 1 1 1 0 0 1 1
67 900	4766*	1 0 0 1 0 1 1 0 1 0 1 1 1 1 1 1	1 1 0 0 1 1 1 0 1 1 1
68 000	4726*	1 0 0 1 0 0 0 1 0 1 0 1 1 1 1 1	1 1 0 0 1 1 1 0 1 1 0
68 100	4736*	1 1 0 1 0 0 0 1 0 1 0 1 1 1 1 1	1 1 0 0 1 1 1 0 1 1 0
68 200	4716*	1 1 0 0 0 0 0 0 1 0 1 1 1 1 1 1	1 1 0 0 1 1 1 0 0 0 0
68 300	4316*	1 1 0 0 0 0 0 1 0 1 0 1 1 0 1 1	1 1 0 0 1 1 1 0 1 0 0
68 400	4336*	1 1 0 1 0 0 0 1 0 1 0 1 1 0 1 1	1 1 0 0 1 1 1 0 1 1 0
68 500	4326*	1 0 0 1 0 0 0 1 0 1 0 1 1 0 1 1	1 1 0 0 1 1 1 0 0 1 0
68 600	4366*	1 0 0 1 0 1 0 1 0 1 0 1 1 0 1 1	1 1 0 0 1 1 1 0 0 1 1
68 700	4346*	1 0 0 0 0 1 1 0 1 0 1 1 1 1 1 1	1 1 0 0 1 1 1 0 0 0 1

TABLE 1

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
68 800	4246*	1 0 0 0 0 1 1 0 0 0 1 1 0 1 1 1	1 1 0 0 1 0 1 0 0 0 1
68 900	4266*	1 0 0 1 0 1 1 0 0 0 0 1 1 0 1 1	1 1 0 0 1 0 1 0 0 0 1 1
69 000	4226*	1 0 0 1 0 0 1 0 0 0 0 1 1 0 1 1	1 1 0 0 1 0 1 0 0 0 1 0
69 100	4236*	1 1 0 1 0 0 1 0 0 0 0 1 1 0 1 1	1 1 0 0 1 0 1 0 0 0 1 0
69 200	4216*	1 1 0 0 0 0 0 1 0 0 0 1 1 0 1 1	1 1 0 0 1 0 1 0 0 0 1 0
69 300	4616*	1 1 0 0 0 0 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 1 1 0 0 0
69 400	4636*	1 1 0 1 0 0 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 1 1 1 0 0
69 500	4626*	1 0 0 1 0 0 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 1 0 1 0 0
69 600	4666*	1 0 0 1 0 1 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 1 0 1 1 1
69 700	4646*	1 0 0 0 0 0 1 1 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 1 0 0 1 1
69 800	4446*	1 0 0 0 0 1 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 0 0 0 1 1
69 900	4466*	1 0 0 1 0 1 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 0 0 0 1 1
70 000	4426*	1 0 0 1 0 0 1 0 0 0 0 1 1 1 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 100	4436*	1 1 0 1 0 0 0 1 0 0 0 0 1 1 1 1	1 1 0 0 1 0 1 0 0 0 1 1
70 200	4416*	1 1 0 0 0 0 0 1 0 0 0 0 1 1 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 300	4016*	1 1 0 0 0 0 1 0 0 0 0 1 0 1 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 400	4036*	1 1 0 1 0 0 1 0 0 0 0 1 0 1 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 500	4026*	1 0 0 1 0 0 1 0 0 0 0 1 0 1 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 600	4066*	1 0 0 1 0 1 1 0 0 0 0 1 0 1 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 700	4046*	1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 1	1 1 0 0 1 0 1 0 0 0 1 0
70 800	6046*	1 0 0 0 1 1 1 0 0 0 0 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
70 900	6066*	1 0 0 1 1 1 1 0 0 0 0 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 000	6026*	1 0 0 1 1 0 1 0 0 0 0 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 100	6036*	1 1 0 1 1 0 1 0 0 0 0 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 200	6016*	1 1 0 0 1 0 1 0 0 0 0 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 300	6416*	1 1 0 0 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 400	6436*	1 1 0 1 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 500	6426*	1 0 0 1 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 600	6466*	1 0 0 1 1 1 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 700	6446*	1 0 0 0 1 1 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 800	6646*	1 0 0 0 1 1 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
71 900	6666*	1 0 0 1 1 1 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 000	6626*	1 0 0 1 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 100	6636*	1 1 0 1 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 200	6616*	1 1 0 0 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 300	6216*	1 1 0 0 1 0 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 400	6236*	1 1 0 1 1 0 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 500	6226*	0 0 1 1 0 1 0 0 0 0 1 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 600	6266*	1 0 0 1 1 1 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 700	6246*	1 0 0 0 1 1 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 800	6346*	1 0 0 0 1 1 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
72 900	6366*	1 0 0 1 1 1 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 000	6326*	1 0 0 1 1 0 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 100	6336*	1 1 0 1 1 0 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 200	6316*	1 1 0 0 1 0 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 300	6716*	1 1 0 0 1 0 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 400	6736*	1 1 0 1 1 0 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 500	6726*	1 0 0 1 1 0 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 600	6766*	1 0 0 1 1 1 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 700	6746*	1 0 0 0 1 1 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 800	6546*	1 0 0 0 1 1 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
73 900	6566*	1 0 0 1 1 1 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 000	6526*	1 0 0 1 1 0 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 100	6536*	1 1 0 1 1 0 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 200	6516*	1 1 0 0 1 0 1 0 1 0 1 1 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 300	6116*	1 1 0 0 1 0 1 0 1 0 1 0 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 400	6136*	1 1 0 1 1 0 1 0 1 0 1 0 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 500	6126*	1 0 0 1 1 0 1 0 1 0 1 0 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 600	6166*	1 0 0 1 1 1 1 0 1 0 1 0 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 700	6146*	1 0 0 0 1 1 1 0 1 0 1 0 1 1 1 1	1 1 0 1 1 0 0 0 0 0 0 1
74 800	2146*	1 0 0 0 1 1 0 0 1 0 0 1 0 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
74 900	2166*	1 0 0 1 1 1 0 0 1 0 0 1 0 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 000	2126*	1 0 0 1 1 0 0 0 1 0 0 1 0 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 100	2136*	1 1 0 1 1 0 0 0 1 0 0 1 0 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 200	2116*	1 1 0 0 1 0 0 0 1 0 0 1 0 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 300	2516*	1 1 0 0 1 0 0 0 1 0 0 1 1 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 400	2536*	1 1 0 1 1 0 0 0 1 0 0 1 1 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 500	2526*	1 0 0 1 1 0 0 0 1 0 0 1 1 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 600	2566*	1 0 0 1 1 1 0 0 1 0 0 1 1 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1
75 700	2546*	1 0 0 0 1 1 0 0 1 0 0 1 1 1 1 1	1 1 0 1 0 0 0 0 0 0 0 1



TABLE 1

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> A <sub>2</sub> A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
75 800	2746*	1 0 0 0 1 1 0 0 1 0 1 1 1 1 1 1	1 1 0 1 0 1 1 1 0 0 1
75 900	2766*	1 0 0 1 1 1 0 0 1 0 1 1 1 1 1 1	1 1 0 1 0 1 1 1 1 0 1 1
76 000	2726*	1 0 0 1 1 0 0 0 1 0 1 1 1 1 1 1	1 1 0 1 0 1 1 1 1 0 1 0
76 100	2736*	1 1 0 1 1 0 0 0 1 0 1 1 1 1 1 1	1 1 0 1 0 1 1 1 1 1 1 0
76 200	2716*	1 1 0 0 1 0 0 0 1 0 1 1 1 1 1 1	1 1 0 1 0 1 1 1 1 1 0 0
76 300	2316*	1 1 0 0 1 0 0 0 1 0 1 1 0 1 1 1	1 1 0 1 0 1 1 0 1 0 1 0
76 400	2336*	1 1 0 1 1 0 0 0 1 0 1 1 0 1 1 1	1 1 0 1 0 1 1 0 1 0 1 1
76 500	2326*	1 0 0 1 1 0 0 0 1 0 1 1 0 1 1 1	1 1 0 1 0 1 1 0 1 0 1 0
76 600	2366*	1 0 0 1 1 1 0 0 1 0 1 1 0 1 1 1	1 1 0 1 0 1 1 0 1 0 1 1
76 700	2346*	1 0 0 0 1 1 0 0 1 0 1 1 0 1 1 1	1 1 0 1 0 1 1 0 1 0 0 1
76 800	2246*	1 0 0 0 1 1 0 0 0 0 1 1 0 1 1 1	1 1 0 1 0 0 1 0 0 1 0 0 1
76 900	2266*	1 0 0 1 1 1 0 0 0 0 1 1 0 1 1 1	1 1 0 1 0 0 1 0 0 1 0 1 1
77 000	2226*	1 0 0 1 1 0 0 0 0 0 1 1 0 1 1 1	1 1 0 1 0 0 1 0 0 1 0 1 0
77 100	2236*	1 1 0 1 1 0 0 0 0 0 1 1 0 1 1 1	1 1 0 1 0 0 1 0 0 1 1 1 0
77 200	2216*	1 1 0 0 1 0 0 0 0 0 1 1 0 1 1 1	1 1 0 1 0 0 1 0 0 1 0 0 0
77 300	2616*	1 1 0 0 1 0 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 1 1 1 1 0 0
77 400	2636*	1 1 0 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 1 1 1 1 0 0
77 500	2626*	1 0 0 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 1 1 0 1 0 0
77 600	2666*	1 0 0 1 1 1 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 1 1 0 1 1 1
77 700	2646*	1 0 0 0 1 1 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 1 1 0 0 0 1
77 800	2446*	1 0 0 0 1 1 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 0 1 0 0 0 1
77 900	2466*	1 0 0 1 1 1 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 0 1 0 0 1 1
78 000	2426*	1 0 0 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 0 1 0 1 0 0
78 100	2436*	1 1 0 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 0 1 1 1 0 0
78 200	2416*	1 1 0 0 1 0 0 0 0 0 1 1 1 1 1 1	1 1 0 1 0 0 0 0 1 1 0 0 0
78 300	2016*	1 1 0 0 1 0 0 0 0 0 1 0 1 1 1 1	1 1 0 1 0 0 0 0 0 1 0 0 0
78 400	2036*	1 1 0 1 1 0 0 0 0 0 1 0 1 1 1 1	1 1 0 1 0 0 0 0 0 1 1 0 0
78 500	2026*	1 0 0 1 1 0 0 0 0 0 1 0 1 1 1 1	1 1 0 1 0 0 0 0 0 0 1 0 0
78 600	2066*	1 0 0 1 1 1 0 0 0 0 1 0 1 1 1 1	1 1 0 1 0 0 0 0 0 0 1 1 1
78 700	2046*	1 0 0 0 1 1 0 0 0 0 1 0 1 1 1 1	1 1 0 1 0 0 0 0 0 0 0 0 1
78 800	3046*	1 0 1 0 1 1 0 0 0 0 1 0 1 1 1 1	1 1 1 1 0 0 0 0 0 0 0 0 1
78 900	3066*	1 0 1 1 1 1 0 0 0 0 1 0 1 1 1 1	1 1 1 1 0 0 0 0 0 0 0 1 1
79 000	3026*	1 0 1 1 1 0 0 0 0 0 1 0 1 1 1 1	1 1 1 1 0 0 0 0 0 0 0 1 0
79 100	3036*	1 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1	1 1 1 1 0 0 0 0 0 0 1 1 0
79 200	3016*	1 1 1 0 1 0 0 0 0 0 1 0 1 1 1 1	1 1 1 1 0 0 0 0 0 0 1 0 0
79 300	3416*	1 1 1 0 1 0 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 0 1 1 0 0 0
79 400	3436*	1 1 1 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 0 1 1 1 0 0
79 500	3426*	1 0 1 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 0 1 0 1 0 0
79 600	3466*	1 0 1 1 1 1 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 0 1 0 1 1 1
79 700	3446*	1 0 1 0 1 1 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 0 1 0 0 0 1
79 800	3646*	1 0 1 0 1 1 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 1 1 0 0 0 1
79 900	3666*	1 0 1 1 1 1 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 1 1 0 0 1 1
80 000	3626*	1 0 1 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 1 1 0 0 1 0
80 100	3636*	1 1 1 1 1 0 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 1 1 1 1 0 0
80 200	3616*	1 1 1 0 1 0 0 0 0 0 1 1 1 1 1 1	1 1 1 1 0 0 0 1 1 1 0 0 0
80 300	3216*	1 1 1 0 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 0 1 0 1 0 0 0
80 400	3236*	1 1 1 1 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 0 1 0 1 1 0 0
80 500	3226*	1 0 1 1 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 0 1 0 0 1 0 0
80 600	3266*	1 0 1 1 1 1 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 0 1 0 0 1 1 1
80 700	3246*	1 0 1 0 1 1 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 0 1 0 0 0 0 1
80 800	3346*	1 0 1 0 1 1 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 0 1 1 0 0 0 0 1
80 900	3366*	1 0 1 1 1 1 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 0 1 1 0 0 0 1 1
81 000	3326*	1 0 1 1 1 0 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 0 1 1 0 0 0 1 0
81 100	3336*	1 1 1 1 1 0 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 0 1 1 0 0 1 1 0
81 200	3316*	1 1 1 0 1 0 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 0 1 1 0 0 1 0 0
81 300	3716*	1 1 1 0 1 0 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 1 1 1 0 0 0
81 400	3736*	1 1 1 1 1 0 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 1 1 1 1 0 0
81 500	3726*	1 0 1 1 1 0 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 1 1 0 1 0 0
81 600	3766*	1 0 1 1 1 1 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 1 1 0 1 1 1
81 700	3746*	1 0 1 0 1 1 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 1 1 0 0 0 1
81 800	3546*	1 0 1 0 1 1 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 0 1 0 0 0 1
81 900	3566*	1 0 1 1 1 1 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 0 1 0 0 1 1
82 000	3526*	1 0 1 1 1 0 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 0 1 0 1 0 0
82 100	3536*	1 1 1 1 1 0 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 0 1 1 1 0 0
82 200	3516*	1 1 1 0 1 0 0 0 1 0 1 1 1 1 1 1	1 1 1 1 0 0 1 0 1 1 0 0 0
82 300	3116*	1 1 1 0 1 0 0 0 1 0 1 0 1 1 1 1	1 1 1 1 0 0 1 0 0 1 0 0 0
82 400	3136*	1 1 1 1 1 0 0 0 1 0 1 0 1 1 1 1	1 1 1 1 0 0 1 0 0 0 1 1 0
82 500	3126*	1 0 1 1 1 0 0 0 1 0 1 0 1 1 1 1	1 1 1 1 0 0 1 0 0 0 1 0 0
82 600	3166*	1 0 1 1 1 1 0 0 1 0 1 0 1 1 1 1	1 1 1 1 0 0 1 0 0 0 1 1 1
82 700	3146*	1 0 1 0 1 1 0 0 1 0 1 0 1 1 1 1	1 1 1 1 0 0 1 0 0 0 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
82 800	7146*	1 0 1 0 1 1 1 0 1 0 0 1 0 1 1 1	1 1 1 1 1 1 0 0 0 0 0 1
82 900	7166*	1 0 1 1 1 1 1 0 1 0 0 1 0 1 1 1	1 1 1 1 1 1 0 0 0 0 0 1
83 000	7126*	1 0 1 1 1 0 1 0 1 0 0 1 0 1 1 1	1 1 1 1 1 1 0 0 0 0 0 1
83 100	7136*	1 1 1 1 1 0 1 0 1 0 0 1 0 1 1 1	1 1 1 1 1 1 0 0 0 0 1 1
83 200	7116*	1 1 1 0 1 0 1 0 1 0 0 1 0 1 1 1	1 1 1 1 1 1 0 0 0 1 0 0
83 300	7516*	1 1 1 0 1 0 1 0 1 0 0 1 1 1 1 1	1 1 1 1 1 1 0 1 1 0 0 0
83 400	7536*	1 1 1 1 1 0 1 0 1 0 0 1 1 1 1 1	1 1 1 1 1 1 0 1 0 1 1 0
83 500	7526*	1 0 1 1 1 0 1 0 1 0 0 1 1 1 1 1	1 1 1 1 1 1 0 1 0 1 0 0
83 600	7566*	1 0 1 1 1 1 1 0 1 0 0 1 1 1 1 1	1 1 1 1 1 1 0 1 0 1 0 1
83 700	7546*	1 0 1 0 1 1 1 0 1 0 0 1 1 1 1 1	1 1 1 1 1 1 0 1 0 0 0 1
83 800	7746*	1 0 1 0 1 1 1 0 1 0 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 0 1
83 900	7766*	1 0 1 1 1 1 1 0 1 0 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 1 1
84 000	7726*	1 0 1 1 1 0 1 0 1 0 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 1 0
84 100	7736*	1 1 1 1 1 0 1 0 1 0 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0
84 200	7716*	1 1 1 0 1 0 1 0 1 0 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 0 0
84 300	7316*	1 1 1 0 1 0 1 0 1 0 1 0 1 1 1 1	1 1 1 1 1 1 1 1 0 1 0 0
84 400	7336*	1 1 1 1 1 0 1 0 1 0 1 0 1 1 1 1	1 1 1 1 1 1 1 1 0 1 1 0
84 500	7326*	1 0 1 1 1 0 1 0 1 0 1 0 1 1 1 1	1 1 1 1 1 1 1 1 0 0 1 0
84 600	7366*	1 0 1 1 1 1 1 0 1 0 1 0 1 1 1 1	1 1 1 1 1 1 1 1 0 0 1 1
84 700	7346*	1 0 1 0 1 1 1 0 1 0 1 0 1 1 1 1	1 1 1 1 1 1 1 1 0 0 0 1
84 800	7246*	1 0 1 0 1 1 1 0 0 0 1 1 0 1 1 1	1 1 1 1 1 1 0 1 0 0 0 1
84 900	7266*	1 0 1 1 1 1 1 0 0 0 1 1 0 1 1 1	1 1 1 1 1 1 0 1 0 0 1 1
85 000	7226*	1 0 1 1 1 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 1 1 0 1 0 0 1 0
85 100	7236*	1 1 1 1 1 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 1 1 0 1 0 1 1 0
85 200	7216*	1 1 1 0 1 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 1 1 0 1 0 1 0 0
85 300	7616*	1 1 1 0 1 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 1 1 0 0
85 400	7636*	1 1 1 1 1 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 1 1 1 0
85 500	7626*	1 0 1 1 1 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 1 0 1 0
85 600	7666*	1 0 1 1 1 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 1 0 1 1
85 700	7646*	1 0 1 0 1 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 1 0 0 1
85 800	7446*	1 0 1 0 1 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 0 0 1 0
85 900	7466*	1 0 1 1 1 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 0 0 1 1
86 000	7426*	1 0 1 1 1 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 0 0 1 0
86 100	7436*	1 1 1 1 1 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 0 1 1 0
86 200	7416*	1 1 1 0 1 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 1 1 0 1 0 0 1 0
86 300	7016*	1 1 1 0 1 0 1 0 0 0 1 0 1 1 1 1	1 1 1 1 1 1 0 0 0 0 1 0
86 400	7036*	1 1 1 1 1 0 1 0 0 0 1 0 1 1 1 1	1 1 1 1 1 1 0 0 0 0 1 0
86 500	7026*	1 0 1 1 1 0 1 0 0 0 1 0 1 1 1 1	1 1 1 1 1 1 0 0 0 0 1 0
86 600	7066*	1 0 1 1 1 1 1 0 0 0 1 0 1 1 1 1	1 1 1 1 1 1 0 0 0 0 1 1
86 700	7046*	1 0 1 0 1 1 1 0 0 0 1 0 1 1 1 1	1 1 1 1 1 1 0 0 0 0 0 1
86 800	5046*	1 0 1 0 0 1 1 0 0 0 1 0 1 1 1 1	1 1 1 1 0 1 0 0 0 0 0 1
86 900	5066*	1 0 1 1 0 1 1 0 0 0 1 0 1 1 1 1	1 1 1 1 0 1 0 0 0 0 0 1
87 000	5026*	1 0 1 1 0 0 1 0 0 0 1 0 1 1 1 1	1 1 1 1 0 1 0 0 0 0 0 1
87 100	5036*	1 1 1 1 0 0 1 0 0 0 1 0 1 1 1 1	1 1 1 1 0 1 0 0 0 0 1 0
87 200	5016*	1 1 1 0 0 0 1 0 0 0 1 0 1 1 1 1	1 1 1 1 0 1 0 0 0 0 1 0
87 300	5416*	1 1 1 0 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 0 0 1 1 0
87 400	5436*	1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 0 0 1 1 0
87 500	5426*	1 0 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 0 0 1 0 0
87 600	5466*	1 0 1 1 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 0 0 1 1 1
87 700	5446*	1 0 1 0 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 0 0 1 0 1
87 800	5646*	1 0 1 0 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 1 1 0 0 1
87 900	5666*	1 0 1 1 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 1 1 0 1 1
88 000	5626*	1 0 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 1 1 0 1 0
88 100	5636*	1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 1 1 1 1 0
88 200	5616*	1 1 1 0 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 0 1 1 1 0 0
88 300	5216*	1 1 1 0 0 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 0 1 0 1 0 0
88 400	5236*	1 1 1 1 0 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 0 1 0 1 1 0
88 500	5226*	1 0 1 1 0 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 0 1 0 0 1 0
88 600	5266*	1 0 1 1 0 1 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 0 1 0 0 1 1
88 700	5246*	1 0 1 0 0 1 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 0 1 0 0 0 1
88 800	5346*	1 0 1 0 0 1 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 1 1 0 0 0 1
88 900	5366*	1 0 1 1 0 1 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 1 1 0 0 1 1
89 000	5326*	1 0 1 0 0 1 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 1 1 0 0 1 0
89 100	5336*	1 1 1 1 0 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 1 1 0 1 1 0
89 200	5316*	1 1 1 0 0 0 1 0 0 0 1 1 0 1 1 1	1 1 1 1 0 1 1 1 0 1 0 0
89 300	5716*	1 1 1 0 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 1 1 1 1 0 0
89 400	5736*	1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 1 1 1 1 1 0
89 500	5726*	1 0 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 1 1 1 0 1 0
89 600	5766*	1 0 1 1 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 1 1 1 0 1 1
89 700	5746*	1 0 1 0 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 1 0 1 1 1 1 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
89 800	5546*	1 0 1 0 0 1 1 0 1 0 0 1 1 1 1 1	1 1 1 0 1 1 0 1 0 0 1
89 900	5566*	1 0 1 1 0 1 1 0 1 0 0 1 1 1 1 1	1 1 1 0 1 1 0 1 0 1 1
90 000	5526*	1 0 1 1 0 0 1 0 1 0 0 1 1 1 1 1	1 1 1 0 1 1 0 1 0 1 0
90 100	5536*	1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 1 0 1 1 1 0
90 200	5516*	1 1 1 0 0 0 1 0 1 0 0 1 1 1 1 1	1 1 1 0 1 1 0 1 1 0 0
90 300	5116*	1 1 1 0 0 0 1 0 1 0 0 1 0 1 1 1	1 1 1 0 1 1 0 0 0 1 0 0
90 400	5136*	1 1 1 1 0 0 1 0 1 0 0 1 0 1 1 1	1 1 1 0 1 1 0 0 0 1 1 0
90 500	5126*	1 0 1 1 0 0 1 0 1 0 0 1 0 1 1 1	1 1 1 0 1 1 0 0 0 0 1 0
90 600	5166*	1 0 1 1 0 1 1 0 1 0 0 1 0 1 1 1	1 1 1 0 1 1 0 0 0 0 1 1
90 700	5146*	1 0 1 0 0 1 1 0 1 0 0 1 0 1 1 1	1 1 1 0 1 1 0 0 0 0 0 1
90 800	1146*	1 0 1 0 0 1 0 0 1 0 0 1 0 1 1 1	1 1 1 0 0 1 0 0 0 0 0 1
90 900	1166*	1 0 1 1 0 1 0 0 1 0 0 1 0 1 1 1	1 1 1 0 0 1 0 0 0 0 1 1
91 000	1126*	1 0 1 1 0 0 0 0 1 0 0 1 0 1 1 1	1 1 1 0 0 1 0 0 0 0 1 0
91 100	1136*	1 1 1 1 0 0 0 0 1 0 0 1 0 1 1 1	1 1 1 0 0 1 0 0 0 1 1 0
91 200	1116*	1 1 1 0 0 0 0 0 1 0 0 1 0 1 1 1	1 1 1 0 0 1 0 0 0 1 0 0
91 300	1516*	1 1 1 0 0 0 0 0 1 0 0 1 1 1 1 1	1 1 1 0 0 1 0 0 1 1 0 0
91 400	1536*	1 1 1 1 0 0 0 0 1 0 0 1 1 1 1 1	1 1 1 0 0 1 0 0 1 1 1 0
91 500	1526*	1 0 1 1 0 0 0 0 1 0 0 1 1 1 1 1	1 1 1 0 0 1 0 0 1 0 1 0
91 600	1566*	1 0 1 0 1 0 0 0 1 0 0 1 1 1 1 1	1 1 1 0 0 1 0 0 1 0 1 1
91 700	1546*	1 0 1 0 0 1 0 0 1 0 0 1 1 1 1 1	1 1 1 0 0 1 0 0 1 0 0 1
91 800	1746*	1 0 1 0 0 1 0 0 1 0 1 1 1 1 1 1	1 1 1 0 0 1 1 1 0 0 0 1
91 900	1766*	1 0 1 1 0 1 0 0 1 0 1 1 1 1 1 1	1 1 1 0 0 1 1 1 0 0 1 1
92 000	1726*	1 0 1 1 0 0 0 0 1 0 1 1 1 1 1 1	1 1 1 0 0 1 1 1 0 0 1 0
92 100	1736*	1 1 1 1 0 0 0 0 1 0 1 1 1 1 1 1	1 1 1 0 0 1 1 1 1 1 0 0
92 200	1716*	1 1 1 0 0 0 0 0 1 0 1 1 1 1 1 1	1 1 1 0 0 1 1 1 1 0 0 0
92 300	1316*	1 1 1 0 0 0 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 1 0 0 0
92 400	1336*	1 1 1 1 0 0 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 1 1 0 0
92 500	1326*	1 0 1 1 0 0 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 0 0 1 0
92 600	1366*	1 0 1 1 0 1 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 0 0 1 1
92 700	1346*	1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 0 0 0 1
92 800	1246*	1 0 1 0 0 1 0 0 0 1 1 0 1 1 1 1	1 1 1 0 0 0 1 0 0 0 0 1
92 900	1266*	1 0 1 1 0 1 0 0 0 1 1 0 1 1 1 1	1 1 1 0 0 0 1 0 0 0 1 1
93 000	1226*	1 0 1 1 0 0 0 0 0 1 1 0 1 1 1 1	1 1 1 0 0 0 1 0 0 0 1 0
93 100	1236*	1 1 1 1 0 0 0 0 0 1 1 0 1 1 1 1	1 1 1 0 0 0 1 0 1 1 0 0
93 200	1216*	1 1 1 0 0 0 0 0 0 1 1 0 1 1 1 1	1 1 1 0 0 0 1 0 1 0 0 0
93 300	1616*	1 1 1 0 0 0 0 0 0 1 1 1 1 1 1 1	1 1 1 0 0 0 1 1 1 0 0 0
93 400	1636*	1 1 1 1 0 0 0 0 0 1 1 1 1 1 1 1	1 1 1 0 0 0 1 1 1 1 0 0
93 500	1626*	1 0 1 1 0 0 0 0 0 1 1 1 1 1 1 1	1 1 1 0 0 0 1 1 0 0 1 0
93 600	1666*	1 0 1 1 0 1 0 0 0 1 1 1 1 1 1 1	1 1 1 0 0 0 1 1 0 0 1 1
93 700	1646*	1 0 1 0 0 0 0 0 0 1 1 1 1 1 1 1	1 1 1 0 0 0 1 1 0 0 0 1
93 800	1446*	1 0 1 0 0 1 0 0 0 0 1 1 1 1 1 1	1 1 1 0 0 0 0 1 0 0 0 1
93 900	1466*	1 0 1 1 0 1 0 0 0 0 1 1 1 1 1 1	1 1 1 0 0 0 0 1 0 0 1 1
94 000	1426*	1 0 1 1 0 0 0 0 0 0 1 1 1 1 1 1	1 1 1 0 0 0 0 1 0 0 1 0
94 100	1436*	1 1 1 1 0 0 0 0 0 0 1 1 1 1 1 1	1 1 1 0 0 0 0 1 1 1 0 0
94 200	1416*	1 1 1 0 0 0 0 0 0 0 1 1 1 1 1 1	1 1 1 0 0 0 0 1 1 0 0 0
94 300	1016*	1 1 1 0 0 0 0 0 0 0 1 0 1 1 1 1	1 1 1 0 0 0 0 0 0 1 0 0
94 400	1036*	1 1 1 1 0 0 0 0 0 0 1 0 1 1 1 1	1 1 1 0 0 0 0 0 0 1 1 0
94 500	1026*	1 0 1 1 0 0 0 0 0 0 1 0 1 1 1 1	1 1 1 0 0 0 0 0 0 0 1 0
94 600	1066*	1 0 1 1 0 1 0 0 0 0 1 0 1 1 1 1	1 1 1 0 0 0 0 0 0 0 1 1
94 700	1046*	1 0 1 0 0 1 0 0 0 0 1 0 1 1 1 1	1 1 1 0 0 0 0 0 0 0 0 1
94 800	1042	1 0 1 0 0 1 0 0 0 0 1 0 0 1 0 0	1 0 1 0 0 0 0 0 0 0 0 1
94 900	1062	1 0 1 1 0 1 0 0 0 0 1 0 0 1 0 0	1 0 1 0 0 0 0 0 0 0 0 1
95 000	1022	1 0 1 1 0 0 0 0 0 0 1 0 0 1 0 0	1 0 1 0 0 0 0 0 0 0 0 1
95 100	1032	1 1 1 1 0 0 0 0 0 0 1 0 0 1 0 0	1 0 1 0 0 0 0 0 0 0 1 0
95 200	1012	1 1 1 0 0 0 0 0 0 0 1 0 0 1 0 0	1 0 1 0 0 0 0 0 0 0 0 0
95 300	1412	1 1 1 0 0 0 0 0 0 0 1 1 0 1 0 0	1 0 1 0 0 0 0 0 0 1 1 0 0
95 400	1432	1 1 1 1 0 0 0 0 0 0 1 1 0 1 0 0	1 0 1 0 0 0 0 0 0 1 1 0 0
95 500	1422	1 0 1 1 0 0 0 0 0 0 1 1 0 1 0 0	1 0 1 0 0 0 0 0 0 1 0 0
95 600	1462	1 0 1 1 0 1 0 0 0 0 1 1 0 1 0 0	1 0 1 0 0 0 0 0 0 1 0 1 1
95 700	1442	1 0 1 0 0 1 0 0 0 0 1 1 0 1 0 0	1 0 1 0 0 0 0 0 0 1 0 0 1
95 800	1642	1 0 1 0 0 1 0 0 0 0 1 1 1 0 1 0	1 0 1 0 0 0 0 0 1 1 0 0 1
95 900	1662	1 0 1 1 0 1 0 0 0 0 1 1 1 0 1 0	1 0 1 0 0 0 0 0 1 1 0 0 1
96 000	1622	1 0 1 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 1 0 0 0 0 0 1 1 0 0 1
96 100	1432	1 1 1 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 1 0 0 0 0 0 1 1 1 0 0
96 200	1612	1 1 1 0 0 0 0 0 0 0 1 1 1 0 1 0	1 0 1 0 0 0 0 0 1 1 1 0 0
96 300	1212	1 1 1 0 0 0 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 0 0 1 0 1 0 0
96 400	1232	1 1 1 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 0 0 1 0 1 0 0
96 500	1222	1 0 1 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 0 0 1 0 0 0 1
96 600	1262	1 0 1 1 0 1 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 0 0 1 0 0 0 1
96 700	1242	1 0 1 0 0 1 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 0 0 1 0 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
96 800	1342	1 0 1 0 0 1 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 0 1
96 900	1362	1 0 1 1 0 1 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 0 1 1
97 000	1322	1 0 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 0 1 0
97 100	1332	1 1 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 1 1 0
97 200	1312	1 1 1 0 0 0 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 1 0 0
97 300	1712	1 1 1 0 0 0 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 1 1 1 1 0 0
97 400	1732	1 1 1 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 1 1 1 1 1 0
97 500	1722	1 0 1 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 1 1 0 1 0 0
97 500	1762	1 0 1 1 0 1 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 1 1 1 0 1 1
97 700	1742	1 0 1 0 0 1 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 1 1 0 1 0 1
97 800	1542	1 0 1 0 0 1 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 0 1 0 1 0 1
97 900	1562	1 0 1 1 0 1 0 0 1 0 1 1 1 0 1 0	1 0 1 0 0 1 0 1 0 1 0 1
98 000	1522	1 0 1 1 0 0 0 0 1 0 1 1 0 1 0 0	1 0 1 0 0 1 0 1 0 1 0 1
98 100	1532	1 1 1 1 0 0 0 0 1 0 1 1 0 1 0 0	1 0 1 0 0 1 0 1 0 1 1 0
98 200	1512	1 1 1 0 0 0 0 0 1 0 1 1 0 1 0 0	1 0 1 0 0 1 0 1 0 1 0 0
98 300	1112	1 1 1 0 0 0 0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 0 0 1 0 0 0
98 400	1132	1 1 1 1 0 0 0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 0 0 1 0 0 1
98 500	1122	1 0 1 1 0 0 0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 0 0 1 0 0 1
98 600	1162	1 0 1 1 0 1 0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 0 0 1 0 0 1
98 700	1142	1 0 1 0 0 1 0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 0 0 1 0 0 1
98 800	5142	1 0 1 0 0 1 1 0 1 0 1 0 0 1 0 0	1 0 1 0 1 1 1 0 0 0 0 1
98 900	5162	1 0 1 1 0 1 1 0 1 0 1 0 0 1 0 0	1 0 1 0 1 1 0 0 0 0 1 1
99 000	5122	1 0 1 1 0 0 1 0 1 0 1 0 0 1 0 0	1 0 1 0 1 1 0 0 0 0 1 0
99 100	5132	1 1 1 1 0 0 1 0 1 0 1 0 0 1 0 0	1 0 1 0 1 1 0 0 0 1 1 0
99 200	5112	1 1 1 0 0 0 1 0 1 0 1 0 0 1 0 0	1 0 1 0 1 1 0 0 0 1 0 0
99 300	5512	1 1 1 0 0 0 1 0 1 0 1 1 0 1 0 0	1 0 1 0 1 1 0 1 1 0 0 0
99 400	5532	1 1 1 1 0 0 1 0 1 0 1 1 0 1 0 0	1 0 1 0 1 1 0 1 1 1 1 0
99 500	5522	1 0 1 1 0 0 1 0 1 0 1 1 0 1 0 0	1 0 1 0 1 1 0 1 1 0 1 0
99 600	5562	1 0 1 1 0 1 1 0 1 0 1 1 0 1 0 0	1 0 1 0 1 1 0 1 1 0 1 1
99 700	5542	1 0 1 0 0 1 1 0 1 0 1 1 0 1 0 0	1 0 1 0 1 1 0 1 1 0 0 1
99 800	5742	1 0 1 0 0 1 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 1 1 1 1 0 0 1
99 900	5762	1 0 1 1 0 1 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 1 1 1 1 0 1 1
100 000	5722	1 0 1 1 0 0 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 1 1 1 1 0 1 0
100 100	5732	1 1 1 1 0 0 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 1 1 1 1 1 1 0
100 200	5712	1 1 1 0 0 0 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 1 1 1 1 1 0 0
100 300	5312	1 1 1 0 0 0 1 0 1 0 1 1 0 0 1 0	1 0 1 0 1 1 1 1 0 1 0 0
100 400	5332	1 1 1 1 0 0 1 0 1 0 1 1 0 0 1 0	1 0 1 0 1 1 1 1 0 1 1 0
100 500	5322	1 0 1 1 0 0 1 0 1 0 1 1 0 0 1 0	1 0 1 0 1 1 1 1 0 0 1 0
100 600	5362	1 0 1 1 0 1 1 0 1 0 1 1 0 0 1 0	1 0 1 0 1 1 1 1 0 0 1 1
100 700	5342	1 0 1 0 0 1 1 0 1 0 1 1 0 0 1 0	1 0 1 0 1 1 1 1 0 0 0 1
100 800	5242	1 0 1 0 0 1 1 0 0 0 1 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 0 1
100 900	5262	1 0 1 1 0 1 1 0 0 0 1 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 1
101 000	5222	1 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 0
101 100	5232	1 1 1 1 0 0 1 0 0 0 1 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 1 1 0
101 200	5212	1 1 1 0 0 0 1 0 0 0 1 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 1 0 0
101 300	5612	1 1 1 0 0 0 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 1 0 1 0 1 1 0 0
101 400	5632	1 1 1 1 0 0 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 1 0 1 0 1 1 1 0
101 500	5622	1 0 1 1 0 0 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 1 0 1 0 1 1 0 0
101 600	5662	1 0 1 1 0 1 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 1 0 1 0 1 1 0 1
101 700	5642	1 0 1 0 0 1 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 1 0 1 0 1 1 0 0
101 800	5442	1 0 1 0 0 1 1 0 0 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 0 0 0 1
101 900	5462	1 0 1 1 0 1 1 0 0 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 1
102 000	5422	1 0 1 1 0 0 1 0 0 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 0
102 100	5432	1 1 1 1 0 0 1 0 0 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 0 1 1 0
102 200	5412	1 1 1 0 0 0 1 0 0 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 0 1 1 0 0
102 300	5012	1 1 1 0 0 0 1 0 0 0 0 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 0 0
102 400	5032	1 1 1 1 0 0 1 0 0 0 0 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 1 0
102 500	5022	1 0 1 1 0 0 1 0 0 0 0 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 0 0
102 600	5062	1 0 1 1 0 1 1 0 0 0 0 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 1 1 1
102 700	5042	1 0 1 0 0 1 1 0 0 0 0 1 0 0 1 0	1 0 1 0 1 1 0 1 0 0 0 0 0 1
102 800	7042	1 0 1 0 1 1 1 1 0 0 0 1 0 0 1 0	1 0 1 1 1 1 0 0 0 0 0 0 1
102 900	7062	1 0 1 1 1 1 1 1 0 0 0 1 0 0 1 0	1 0 1 1 1 1 0 0 0 0 0 1 1
103 000	7022	1 0 1 1 1 0 1 0 0 0 0 1 0 0 1 0	1 0 1 1 1 1 0 0 0 0 0 1 0
103 100	7032	1 1 1 1 1 0 1 0 0 0 0 1 0 0 1 0	1 0 1 1 1 1 0 0 0 0 1 1 0
103 200	7012	1 1 1 0 1 0 1 0 0 0 0 1 0 0 1 0	1 0 1 1 1 1 0 0 0 0 1 0 0
103 300	7412	1 1 1 0 1 0 1 0 0 0 0 1 1 0 1 0	1 0 1 1 1 1 0 0 0 1 1 0 0
103 400	7432	1 1 1 1 1 0 1 0 0 0 0 1 1 0 1 0	1 0 1 1 1 1 0 0 0 1 1 1 0
103 500	7422	1 0 1 1 1 0 1 0 0 0 0 1 1 0 1 0	1 0 1 1 1 1 0 0 0 1 0 1 0
103 600	7462	1 0 1 1 1 1 1 0 0 0 0 1 1 0 1 0	1 0 1 1 1 1 0 0 0 1 0 1 1
103 700	7442	1 0 1 0 1 1 1 0 0 0 0 1 1 0 1 0	1 0 1 1 1 1 0 0 0 1 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
103 800	7642	1 0 1 0 1 1 1 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 0 0 1
103 900	7662	1 0 1 1 1 1 1 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 0 1 1
104 000	7622	1 0 1 1 1 0 1 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 0 1 0
104 100	7632	1 1 1 1 1 0 1 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 1 0
104 200	7612	1 1 1 0 1 0 1 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 0 0
104 300	7212	1 1 1 0 1 0 1 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 1 0 1 0 0
104 400	7232	1 1 1 1 1 0 1 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 1 0 1 1 0
104 500	7222	1 0 1 1 1 0 1 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 1 0 0 1 0
104 600	7262	1 0 1 1 1 1 1 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 1 0 0 1 1
104 700	7242	1 0 1 0 1 1 1 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 1 0 0 0 1
104 800	7342	1 0 1 0 1 1 1 0 1 0 1 1 0 0 1 0	1 0 1 1 1 1 1 0 0 0 1
104 900	7362	1 0 1 1 1 1 1 0 1 0 1 1 0 0 1 0	1 0 1 1 1 1 1 0 0 1 1
105 000	7322	1 0 1 1 1 0 1 0 1 0 1 1 0 0 1 0	1 0 1 1 1 1 1 0 0 1 0
105 100	7332	1 1 1 1 1 0 1 0 1 0 1 1 0 0 1 0	1 0 1 1 1 1 1 0 1 1 0
105 200	7312	1 1 1 0 1 0 1 0 1 0 1 1 0 0 1 0	1 0 1 1 1 1 1 0 1 0 0
105 300	7712	1 1 1 0 1 0 1 0 1 0 1 1 1 0 1 0	1 0 1 1 1 1 1 1 1 0 0
105 400	7732	1 1 1 1 1 0 1 0 1 0 1 1 1 0 1 0	1 0 1 1 1 1 1 1 1 1 0
105 500	7722	1 0 1 1 1 0 1 0 1 0 1 1 1 0 1 0	1 0 1 1 1 1 1 1 1 0 1
105 600	7762	1 0 1 1 1 1 1 0 1 0 1 1 1 0 1 0	1 0 1 1 1 1 1 1 1 0 1
105 700	7742	1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0	1 0 1 1 1 1 1 1 1 0 0
105 800	7542	1 0 1 0 1 1 1 0 1 0 0 1 1 0 1 0	1 0 1 1 1 1 1 0 1 0 0
105 900	7562	1 0 1 1 1 1 1 0 1 0 0 1 1 0 1 0	1 0 1 1 1 1 1 0 1 0 1
106 000	7522	1 0 1 1 1 0 1 0 1 0 0 1 1 0 1 0	1 0 1 1 1 1 1 0 1 0 0
106 100	7532	1 1 1 1 0 1 0 1 0 1 0 1 1 0 1 0	1 0 1 1 1 1 1 0 1 1 0
106 200	7512	1 1 1 0 1 0 1 0 1 0 0 1 1 0 1 0	1 0 1 1 1 1 1 0 1 1 0
106 300	7112	1 1 1 0 1 0 1 0 1 0 0 1 0 0 1 0	1 0 1 1 1 1 1 0 0 1 0
106 400	7132	1 1 1 1 1 0 1 0 1 0 0 1 0 0 1 0	1 0 1 1 1 1 1 0 0 1 1
106 500	7122	1 0 1 1 1 0 1 0 1 0 0 1 0 0 1 0	1 0 1 1 1 1 1 0 0 1 0
106 600	7162	1 0 1 1 1 1 1 0 1 0 0 1 0 0 1 0	1 0 1 1 1 1 1 0 0 0 1
106 700	7142	1 0 1 0 1 1 1 0 1 0 0 1 0 0 1 0	1 0 1 1 1 1 1 0 0 0 1
106 800	3142	1 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0	1 0 1 1 1 0 1 0 0 0 1
106 900	3162	1 0 1 1 1 1 0 0 1 0 0 1 0 0 1 0	1 0 1 1 1 0 1 0 0 1 1
107 000	3122	1 0 1 1 1 0 0 0 1 0 0 1 0 0 1 0	1 0 1 1 1 0 1 0 0 1 0
107 100	3132	1 1 1 1 1 0 0 0 1 0 0 1 0 0 1 0	1 0 1 1 1 0 1 0 0 1 1
107 200	3112	1 1 1 0 1 0 0 0 1 0 0 1 0 0 1 0	1 0 1 1 1 0 1 0 0 1 0
107 300	3512	1 1 1 0 1 0 0 0 1 0 0 1 1 0 1 0	1 0 1 1 1 0 1 0 1 1 0
107 400	3532	1 1 1 1 1 0 0 0 1 0 0 1 1 0 1 0	1 0 1 1 1 0 1 0 1 1 1
107 500	3522	1 0 1 1 1 0 0 0 1 0 0 1 1 0 1 0	1 0 1 1 1 0 1 0 1 0 1
107 600	3562	1 0 1 1 1 1 0 0 1 0 0 1 1 0 1 0	1 0 1 1 1 0 1 0 1 0 1
107 700	3542	1 0 1 0 1 1 0 0 1 0 0 1 1 0 1 0	1 0 1 1 1 0 1 0 1 0 0
107 800	3742	1 0 1 0 1 1 0 0 1 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 0 0
107 900	3762	1 0 1 1 1 1 0 0 1 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 0 1
108 000	3722	1 0 1 1 1 0 0 0 1 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 0 0
108 100	3732	1 1 1 1 1 0 0 0 1 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 1 0
108 200	3712	1 1 1 0 1 0 0 0 1 0 1 1 1 0 1 0	1 0 1 1 1 0 1 1 1 1 0
108 300	3312	1 1 1 0 1 0 0 0 1 0 1 1 0 0 1 0	1 0 1 1 1 0 1 1 0 0 0
108 400	3332	1 1 1 1 1 0 0 0 1 0 1 1 0 0 1 0	1 0 1 1 1 0 1 1 0 1 0
108 500	3322	1 0 1 1 1 0 0 0 1 0 1 1 0 0 1 0	1 0 1 1 1 0 1 1 0 0 1
108 600	3362	1 0 1 1 1 1 0 0 1 0 1 1 0 0 1 0	1 0 1 1 1 0 1 1 0 0 1
108 700	3342	1 0 1 0 1 1 0 0 1 0 1 1 0 0 1 0	1 0 1 1 1 0 1 1 0 0 1
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108 900	3262	1 0 1 1 1 1 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 1 0 0 1
109 000	3222	1 0 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 1 0 0 1
109 100	3232	1 1 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 1 0 1 0
109 200	3212	1 1 1 0 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 1 0 0 0
109 300	3612	1 1 1 0 1 0 0 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 0 1 1 0 0
109 400	3632	1 1 1 1 1 0 0 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 0 1 1 1 0
109 500	3622	1 0 1 1 1 0 0 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 0 1 1 0 1
109 600	3662	1 0 1 1 1 1 0 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 0 1 1 0 1
109 700	3642	1 0 1 0 1 1 0 0 0 0 1 1 1 0 1 0	1 0 1 1 1 0 0 1 1 0 0
109 800	3442	1 0 1 0 1 1 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 0 1 0 0
109 900	3462	1 0 1 1 1 1 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 0 1 0 1
110 000	3422	1 0 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 0 1 0 0
110 100	3432	1 1 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 0 1 1 0
110 200	3412	1 1 1 0 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 1 0 0 0 1 1 0
110 300	3012	1 1 1 0 1 0 0 0 0 0 1 0 0 1 0	1 0 1 1 1 0 0 0 0 1 0
110 400	3032	1 1 1 1 1 0 0 0 0 0 1 0 0 1 0	1 0 1 1 1 0 0 0 0 1 1
110 500	3022	1 0 1 1 1 0 0 0 0 0 1 0 0 1 0	1 0 1 1 1 0 0 0 0 1 0
110 600	3062	1 0 1 1 1 1 0 0 0 0 1 0 0 1 0	1 0 1 1 1 0 0 0 0 1 1
110 700	3042	1 0 1 0 1 1 0 0 0 0 1 0 0 1 0	1 0 1 1 1 0 0 0 0 0 1

TABLE I

HEIGHT	EQUIV- ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
110 800	2042	1 0 0 0 1 1 0 0 0 0 0 0 1 0 0 1 0	1 0 0 1 0 0 0 0 0 0 0 1
110 900	2062	1 0 0 1 1 1 0 0 0 0 0 0 1 0 0 1 0	1 0 0 1 0 0 0 0 0 0 0 1 1
111 000	2022	1 0 0 1 1 0 0 0 0 0 0 0 1 0 0 1 0	1 0 0 1 0 0 0 0 0 0 0 1 0
111 100	2032	1 1 0 1 1 0 0 0 0 0 0 0 1 0 0 1 0	1 0 0 1 0 0 0 0 0 0 1 1 0
111 200	2012	1 1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0	1 0 0 1 0 0 0 0 0 0 1 0 0
111 300	2412	1 1 0 0 1 0 0 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 0 0 1 1 0 0
111 400	2432	1 1 0 1 1 0 0 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 0 0 1 1 1 0
111 500	2422	1 0 0 1 1 0 0 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 0 0 1 1 0 1 0
111 600	2462	1 0 0 1 1 1 0 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 0 0 1 0 1 1
111 700	2442	1 0 0 0 1 1 0 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 0 0 1 0 0 1
111 800	2642	1 0 0 0 1 1 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 0 1
111 900	2662	1 0 0 1 1 1 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 1
112 000	2622	1 0 0 1 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 0
112 100	2632	1 1 0 1 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 0 0
112 200	2612	1 1 0 0 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 0 0
112 300	2212	1 1 0 0 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 1 0 0
112 400	2232	1 1 0 1 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 1 0
112 500	2222	1 0 0 1 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 0 1 0 1 0
112 600	2262	1 0 0 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 0 1 0 1 1
112 700	2242	1 0 0 0 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 0 1 0 0 1
112 800	2342	1 0 0 0 1 1 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 0 1
112 900	2362	1 0 0 1 1 1 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 1 1
113 000	2322	1 0 0 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 1 0 1 0
113 100	2332	1 1 0 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 1 0 1 0
113 200	2312	1 1 0 0 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 0 1 1 0 1 0
113 300	2712	1 1 0 0 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 0 1 1 1 1 0 0
113 400	2732	1 1 0 1 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 0 1 1 1 1 0 0
113 500	2722	1 0 0 1 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 0 1 1 1 1 0 0
113 600	2762	1 0 0 1 1 1 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 0 1 1 1 1 0 1
113 700	2742	1 0 0 0 1 1 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 0 1 1 1 1 0 1
113 800	2542	1 0 0 0 1 1 0 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 0 1 0 1 0 0 1
113 900	2562	1 0 0 1 1 1 0 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 0 1 0 1 0 1 1
114 000	2522	1 0 0 1 1 0 0 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 0 1 0 1 0 1 0
114 100	2532	1 1 0 1 1 0 0 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 0 1 0 1 1 0 0
114 200	2512	1 1 0 0 1 0 0 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 0 1 0 1 1 0 0
114 300	2112	1 1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 1 0 0
114 400	2132	1 1 0 1 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 1 1 0
114 500	2122	1 0 0 1 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 1 0 0
114 600	2162	1 0 0 1 1 1 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 0 1 1
114 700	2142	1 0 0 0 1 1 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 0 1 0 0 0 0 1
114 800	6142	1 0 0 0 1 1 1 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 0 0 0 1
114 900	6162	1 0 0 1 1 1 1 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 0 0 1 1
115 000	6122	1 0 0 1 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 0 0 1 0
115 100	6132	1 1 0 1 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 0 0 1 1
115 200	6112	1 1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 0 0 1 0
115 300	6512	1 1 0 0 0 0 1 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 0 1 1 0 0
115 400	6532	1 1 0 1 0 0 1 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 0 1 1 0 0
115 500	6522	1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 0 1 1 0 0
115 600	6562	1 0 0 1 1 1 1 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 0 1 1 1
115 700	6542	1 0 0 0 1 1 1 0 0 1 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 0 1 0 0 1
115 800	6742	1 0 0 0 1 1 1 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 1 1 0 0 1
115 900	6762	1 0 0 1 1 1 1 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 1 1 0 1 1
116 000	6722	1 0 0 1 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 1 1 0 1 0
116 100	6732	1 1 0 1 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 1 1 1 1 0
116 200	6712	1 1 0 0 1 0 0 0 0 1 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 1 1 1 0 0
116 300	6312	1 1 0 0 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 1 1 0 1 0 0
116 400	6332	1 1 0 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 1 1 0 1 1 0
116 500	6322	1 0 0 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 1 1 0 0 1 0
116 600	6362	1 0 0 1 1 1 1 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 1 1 0 0 1 1
116 700	6342	1 0 0 0 1 1 1 0 0 1 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 1 1 0 0 0 1
116 800	6242	1 0 0 0 1 1 1 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 1 0 0 0 1
116 900	6262	1 0 0 1 1 1 1 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 1 0 0 1 1
117 000	6222	1 0 0 1 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 1 0 0 1 0
117 100	6232	1 1 0 1 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 1 0 1 1 0
117 200	6212	1 1 0 0 1 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 1 0 0 1 1 1 0 1 0 1 0 0
117 300	6612	1 1 0 0 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 1 1 0 0
117 400	6632	1 1 0 1 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 1 1 1 0
117 500	6622	1 0 0 1 1 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 1 0 1 0
117 600	6662	1 0 0 1 1 1 1 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 1 0 1 1
117 700	6642	1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1 1 0 0 1

TABLE 1

HEIGHT	EQUIV - ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
117 800	6442	1 0 0 0 1 1 1 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 0 0 1
117 900	6462	1 0 0 1 1 1 1 0 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 0 1 1
118 000	6422	1 0 0 1 1 0 1 0 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 0 1 0
118 100	6432	1 1 0 1 1 0 1 0 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 1 1 0
118 200	6412	1 1 0 0 1 0 1 0 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 1 0 0
118 300	5012	1 1 0 0 1 0 1 0 0 0 0 1 0 0 1 0	1 0 0 1 1 0 0 0 1 0 0
118 400	6032	1 1 0 1 1 1 1 0 0 0 0 1 0 0 1 0	1 0 0 1 1 0 0 0 1 1 0
118 500	6022	1 0 0 1 1 0 1 0 0 0 0 1 0 0 1 0	1 0 0 1 1 0 0 0 0 1 0
118 600	6062	1 0 0 1 1 1 1 0 0 0 0 1 0 0 1 0	1 0 0 1 1 0 0 0 0 1 1
118 700	6042	1 0 0 0 1 1 1 0 0 0 0 1 0 0 1 0	1 0 0 1 1 0 0 0 0 0 1
118 800	4042	1 0 0 0 0 1 1 0 0 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 0 0 1
118 900	4062	1 0 0 1 0 1 1 0 0 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 0 0 1
119 000	4022	1 0 0 1 0 0 1 0 0 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 0 0 1
119 100	4032	1 1 0 1 0 0 1 0 0 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 1 1 0
119 200	4012	1 1 0 0 0 0 1 0 0 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0
119 300	4412	1 1 0 0 0 0 1 0 0 0 0 1 1 0 1 0	1 0 0 0 1 0 0 1 1 0 0
119 400	4432	1 1 0 1 0 0 1 0 0 0 0 1 1 0 1 0	1 0 0 0 1 0 0 1 1 1 0
119 500	4422	1 0 0 1 0 0 1 0 0 0 0 1 1 0 1 0	1 0 0 0 1 0 0 1 0 1 0
119 600	4462	1 0 0 1 0 1 1 0 0 0 0 1 1 0 1 0	1 0 0 0 1 0 0 1 0 1 1
119 700	4442	1 0 0 0 0 1 1 0 0 0 0 1 1 0 1 0	1 0 0 0 1 0 0 1 0 0 1
119 800	4642	1 0 0 0 1 1 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 0 0 1
119 900	4662	1 0 0 1 0 1 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 0 1 1
120 000	4622	1 0 0 1 0 0 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 0 1 0
120 100	4632	1 1 0 1 0 0 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 1 1 0
120 200	4612	1 1 0 0 0 0 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 1 0 0
120 300	4212	1 1 0 0 0 0 1 0 0 0 1 1 0 0 1 0	1 0 0 0 1 0 1 0 1 0 0
120 400	4232	1 1 0 1 0 0 1 0 0 0 1 1 0 0 1 0	1 0 0 0 1 0 1 0 1 1 0
120 500	4222	1 0 0 1 0 0 1 0 0 0 1 1 0 0 1 0	1 0 0 0 1 0 1 0 0 1 0
120 600	4262	1 0 0 1 0 1 1 0 0 0 1 1 0 0 1 0	1 0 0 0 1 0 1 0 0 1 1
120 700	4242	1 0 0 0 0 1 1 0 0 0 1 1 0 0 1 0	1 0 0 0 1 0 1 0 0 0 1
120 800	4342	1 0 0 0 0 1 1 0 1 0 1 1 0 0 1 0	1 0 0 0 1 1 1 0 0 0 1
120 900	4362	1 0 0 1 0 1 1 0 1 0 1 1 0 0 1 0	1 0 0 0 1 1 1 0 0 1 1
121 000	4322	1 0 0 1 0 0 1 0 1 0 1 1 0 0 1 0	1 0 0 0 1 1 1 0 0 1 0
121 100	4332	1 1 0 1 0 0 1 0 1 0 1 1 0 0 1 0	1 0 0 0 1 1 1 0 1 1 0
121 200	4312	1 1 0 0 0 0 1 0 1 0 1 1 0 0 1 0	1 0 0 0 1 1 1 0 1 0 0
121 300	4712	1 1 0 0 0 0 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 1 0 0
121 400	4732	1 1 0 0 0 0 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 1 1 0
121 500	4722	1 0 0 1 0 0 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 0 1 0
121 600	4762	1 0 0 1 0 1 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 0 1 1
121 700	4742	1 0 0 0 0 1 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 0 0 1
121 800	4542	1 0 0 0 0 1 1 0 1 0 1 1 0 1 0	1 0 0 0 1 1 0 1 0 0 1
121 900	4562	1 0 0 1 0 1 1 0 1 0 1 1 0 1 0	1 0 0 0 1 1 0 1 0 1 1
122 000	4522	1 0 0 1 0 0 1 0 1 0 1 1 0 1 0	1 0 0 0 1 1 0 1 0 1 0
122 100	4532	1 1 0 1 0 0 1 0 1 0 1 1 0 1 0	1 0 0 0 1 1 0 1 1 1 0
122 200	4512	1 1 0 0 0 0 1 0 1 0 1 1 0 1 0	1 0 0 0 1 1 0 1 1 0 0
122 300	4112	1 1 0 0 0 0 1 0 1 0 1 0 0 1 0	1 0 0 0 1 1 0 0 1 0 0
122 400	4132	1 1 0 1 0 0 1 0 1 0 1 0 0 1 0	1 0 0 0 1 1 0 0 1 1 0
122 500	4122	1 0 0 1 0 0 1 0 1 0 1 0 0 1 0	1 0 0 0 1 1 0 0 0 1 0
122 600	4162	1 0 0 1 0 1 1 0 1 0 1 0 0 1 0	1 0 0 0 1 1 0 0 0 1 1
122 700	4142	0 0 0 0 1 1 0 1 0 0 1 0 0 1 0	1 0 0 0 1 1 0 0 0 0 1
122 800	0142	1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 0 0 1
122 900	0162	1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 0 1 1
123 000	0122	1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 0 1 0
123 100	0132	1 1 0 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 1 1 0
123 200	0112	1 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0
123 300	0512	1 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 1 1 0 0
123 400	0532	1 1 0 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 1 1 1 0
123 500	0522	1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 1 0 1 0
123 600	0562	1 0 0 1 1 0 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 1 0 1 1
123 700	0542	1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0	1 0 0 0 1 0 0 1 0 0 1
123 800	0742	1 0 0 0 0 1 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 1 1 0 0 1
123 900	0762	1 0 0 1 0 1 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 1 1 1 0 1
124 000	0722	1 0 0 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 1 1 1 0 0
124 100	0732	1 1 0 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 1 1 1 1 0
124 200	0712	1 1 0 0 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 1 1 1 0 0
124 300	0312	1 1 0 0 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0 0
124 400	0332	1 1 0 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 0 1 1 0 0
124 500	0322	1 0 0 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0 1
124 600	0362	1 0 0 1 0 1 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 0 1 0 1 1
124 700	0342	1 0 0 0 0 1 0 0 1 0 1 1 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0 1

TABLE I

HEIGHT	EQUIV - ALENT MODE 3/A REPLY	PULSE POSITIONS	HEIGHT CODE POSITIONS
FEET	ABCD	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
124 800	0242	1 0 0 0 0 1 0 0 0 0 0 1 1 0 0 1 0	1 0 0 0 0 0 1 0 0 0 1
124 900	0262	1 0 0 1 0 1 0 0 0 0 0 1 1 0 0 1 0	1 0 0 0 0 0 1 0 0 0 1
125 000	0222	1 0 0 1 0 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 0 0 0 1 0 0 0 1
125 100	0232	1 1 0 1 0 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 0 0 0 1 0 1 1 0
125 200	0212	1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0	1 0 0 0 0 0 1 0 1 0 0
125 300	0612	1 1 0 0 0 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 0 0 0 1 1 1 0 0
125 400	0632	1 1 0 1 0 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 0 0 0 1 1 1 1 0
125 500	0622	1 0 0 1 0 0 0 0 0 0 0 1 1 1 0 1 0	1 0 0 0 0 0 1 1 0 1 0
125 600	0662	1 0 0 1 0 1 0 0 0 0 0 1 1 1 0 1 0	1 0 0 0 0 0 1 1 1 0 1
125 700	0642	1 0 0 0 0 1 0 0 0 0 0 1 1 1 0 1 0	1 0 0 0 0 0 1 1 0 0 1
125 800	0442	1 0 0 0 0 1 0 0 0 0 0 1 1 0 1 0 0	1 0 0 0 0 0 0 1 0 0 1
125 900	0462	1 0 0 1 0 1 0 0 0 0 0 1 1 0 1 0 0	1 0 0 0 0 0 0 1 0 1 1
126 000	0422	1 0 0 1 0 0 0 0 0 0 0 1 1 0 1 0 0	1 0 0 0 0 0 0 1 0 1 0
126 100	0432	1 1 0 1 0 0 0 0 0 0 0 1 1 0 1 0 0	1 0 0 0 0 0 0 1 1 1 0
126 200	0412	1 1 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0	1 0 0 0 0 0 0 1 1 0 0
126 300	0012	1 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0	1 0 0 0 0 0 0 1 0 0 0
126 400	0032	1 1 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0	1 0 0 0 0 0 0 1 1 0 0
126 500	0022	1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0	1 0 0 0 0 0 0 0 0 1 0
126 600	0062	1 0 0 1 0 1 0 0 0 0 0 1 0 0 1 0 0	1 0 0 0 0 0 0 0 0 1 1
126 700	0042	1 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0	1 0 0 0 0 0 0 0 0 0 1



[illegible][illegible]

TABLE 2

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
0340	400	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 1 0 0 0 0 1
0342	174 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 1 1 0 0 0 0 1
0344*	40 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 1 0 0 0 0 1
0346*	44 400	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 1 0 0 0 0 1
0348*	900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 1 0 0 0 0 1
0362	174 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 1 0 0 0 0 1
0344*	60 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 1 0 0 0 0 1
0346*	44 900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 1 0 0 0 0 1
0410	- 700	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 0 0 0
0412	176 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 0 0 0
0414*	42 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 0 0 0
0416*	62 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 0 0 0
0420	- 500	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 1 0 0
0422	176 000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 0 1 0 0
0424*	62 000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 0 1 0 0
0426*	62 500	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 0 1 0 0
0430	- 600	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 1 0 0
0432	174 100	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 1 0 0
0434*	42 100	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 1 0 0
0436*	62 400	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 1 0 0
0440	- 300	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 0 0 1
0442	125 800	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 0 0 0 1
0444*	61 800	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 0 0 0 1
0446*	63 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 0 0 0 1
0460	- 400	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 1 1
0462	125 900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 0 1 1
0464*	61 900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 0 1 1
0466*	63 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 0 1 1
0510	2 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 1 0 0 0
0512	123 300	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 0 1 1 0 0 0
0514*	50 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 1 1 0 0 0
0516*	46 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 0 1 1 0 0 0
0520	2 000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 0 1 0 0
0522	123 500	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 0 1 0 1 0 0
0524*	50 500	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 1 0 1 0 0
0526*	46 000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 0 1 0 1 0 0
0530	2 100	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 1 1 0 0
0532	123 400	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 0 1 1 1 0 0
0534*	49 400	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 1 1 1 0 0
0536*	46 100	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 0 1 1 1 0 0
0540	1 800	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 0 0 0 1
0542	123 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 0 1 0 0 0 1
0544*	50 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 1 0 0 0 1
0546*	45 800	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 0 1 0 0 0 1
0560	1 900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 0 1 1
0562	123 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 0 1 0 1 1
0564*	50 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 1 0 1 1
0566*	65 900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 0 1 0 1 1
0610	200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 1 0 0
0612	125 300	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 1 0 0
0614*	61 300	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 1 0 0
0616*	44 200	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 1 0 0
0620	- 200	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 0 1 0
0622	125 500	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 0 1 0
0624*	61 500	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 0 1 0
0626*	64 000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 0 1 0
0630	100	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 1 1 0
0632	125 400	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 1 1 0
0634*	61 400	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 1 1 0
0636*	44 100	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 1 1 0
0640	- 200	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 0 0 1
0642	125 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 0 0 1
0644*	61 700	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 0 0 1
0646*	63 800	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 0 0 1
0660	- 100	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 0 1 1
0662	125 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 0 1 1
0664*	61 600	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 1 0 1 1
0666*	63 900	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 1 1 0 1 1
0710	1 300	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 1 0 0
0712	174 300	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 1 1 0 0

TABLE 2

EQUIV = ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS															HEIGHT CODE POSITIONS										
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> D <sub>2</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>
0716*	60 200	1	1	0	0	0	0	0	0	1	0	1	0	1	1	1	1	0	1	0	0	1	1	1	0	0	0
0716*	45 300	1	1	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0
0720	1 400	1	0	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	1	1	1	0	1	0
0722	124 000	1	0	0	1	0	0	0	0	1	0	1	1	1	1	0	1	0	1	0	0	1	1	1	0	1	0
0724*	60 000	1	0	0	1	0	0	0	0	1	0	1	0	1	1	1	1	0	1	0	0	1	1	1	0	1	0
0726*	45 400	1	0	0	1	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0
0730	1 400	1	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	1	1	1	1	1	0
0732	124 100	1	1	0	1	0	0	0	0	1	0	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	0
0734*	60 100	1	1	0	1	0	0	0	0	1	0	1	0	1	1	1	1	0	1	0	0	1	1	1	1	1	0
0734*	45 400	1	1	0	1	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0
0740	1 700	1	0	0	0	0	1	0	0	1	0	1	0	1	0	1	0	0	0	0	0	1	1	1	0	0	1
0742	123 800	1	0	0	0	0	1	0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	0	1
0744*	50 800	1	0	0	0	0	1	0	0	1	0	1	0	1	1	1	1	1	0	1	0	0	1	1	1	0	0
0744*	45 700	1	0	0	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1
0746*	1 600	1	0	0	0	1	0	1	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	1	1
0762	123 900	1	0	0	1	0	1	0	0	1	0	1	1	1	1	0	1	0	1	0	0	1	1	1	0	1	1
0764*	50 900	1	0	0	1	0	1	0	0	1	0	1	0	1	1	1	1	1	0	1	0	0	1	1	1	0	1
0764*	45 400	1	0	0	1	0	1	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1
1010	30 300	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
1012	95 200	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0
1014*	31 200	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	1	0	0
1016*	94 300	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0
1020	30 500	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
1022	95 000	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0
1024*	31 000	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	1	0
1026*	94 500	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	1	0
1030	10 400	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	
1032	95 100	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	1	1	0	
1034*	31 100	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	0	0	1	1	0
1036*	94 400	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	0	0	0	1	1	0
1040	30 700	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
1042	94 800	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0
1044*	30 800	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1
1046*	94 700	1	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	1
1060	30 600	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
1062	94 900	1	0	1	1	0	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	1	0
1064*	30 900	1	0	1	1	0	1	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	1	1
1066*	94 600	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	1	1
1110	27 200	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
1112	98 300	1	1	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	0	0	0
1114*	34 300	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	1	0	0	1	0	0	0	0
1116*	91 200	1	1	1	0	0	0	0	0	1	0	0	1	0	1	0	1	1	1	0	1	0	0	1	0	0	0
1120	27 000	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
1122	98 400	1	0	1	1	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	0	1	0
1124*	34 500	1	0	1	1	0	0	0	0	1	0	0	0	0	1	1	1	1	0	1	0	0	0	0	1	0	0
1126*	91 000	1	0	1	1	0	0	0	0	1	0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	0	0
1130	27 100	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
1132	98 400	1	1	1	1	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	0	1	0
1134*	34 400	1	1	1	1	0	0	0	0	1	0	0	0	0	1	1	1	1	0	1	0	0	1	1	0	0	0
1136*	91 100	1	1	1	1	0	0	0	0	1	0	0	1	0	1	0	1	1	1	0	1	0	0	1	1	0	0
1140	26 800	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
1142	98 200	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0
1144*	34 700	1	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1
1146*	98 300	1	0	1	0	0	1	0	0	1	0	0	1	0	1	0	1	1	1	0	1	0	0	0	0	0	1
1150	26 900	1	0	1	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0
1162	98 600	1	0	1	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	0
1164*	34 600	1	0	1	1	0	1	0	0	1	0	0	0	0	1	1	1	1	0	1	0	0	0	0	1	1	0
1164*	98 500	1	0	1	1	0	1	0	0	1	0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	0
1210	29 200	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	0	0	0
1212	96 300	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	1	0	0	0
1214*	32 300	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	1	0	0	0	1	0	0	0
1216*	92 200	1	1	1	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0
1220	29 000	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
1222	96 400	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	1	0	0	0
1224*	32 500	1	0	1	1	0	0	0	0	0	0	0	1	0	0	1	1	1	0	1	0	0	0	1	0	0	0

TABLE 2

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
1240	28 800	1 0 1 0 0 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 0 0 1
1242	96 700	1 0 1 0 0 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 1 0 0 0 0 1
1244*	32 700	1 0 1 0 0 1 0 0 0 0 0 1 0 1 1 1 1	0 1 1 0 0 0 1 0 0 0 0 1
1246*	92 800	1 0 1 0 0 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 0 0 0 1 0 0 0 0 1
1248	28 900	1 0 1 1 0 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0 0 0 1 1
1262	96 600	1 0 1 1 0 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 0 0 0 1 0 0 0 1 1
1264*	32 600	1 0 1 1 0 1 0 0 0 0 0 1 0 0 1 1 1	0 1 1 0 0 0 1 0 0 0 1 1
1266*	92 600	1 0 1 1 0 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 0 0 0 1 0 0 0 1 1
1310	28 100	1 1 1 0 0 0 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 1 0 1 0
1312	92 200	1 1 1 0 0 0 0 0 1 0 1 0 0 0 1 0	1 0 1 0 0 1 1 0 1 0 1 0
1314*	32 200	1 1 1 0 0 0 0 0 1 0 1 0 0 1 1 1	0 1 1 0 0 1 1 0 1 0 1 0
1316*	92 300	1 1 1 0 0 0 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 1 0 1 0
1320	28 500	1 0 1 1 0 0 0 0 1 0 1 0 0 1 1 0	0 0 1 0 0 1 1 0 0 0 1 0
1322	92 000	1 0 1 1 0 0 0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 1 0 0 0 1 0
1324*	32 000	1 0 1 1 0 0 0 0 1 0 1 0 0 1 1 1	0 1 1 0 0 1 1 0 0 0 1 0
1326*	92 500	1 0 1 1 0 0 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 0 0 1 0
1330	28 400	1 1 1 1 0 0 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 0 1 1 0
1332	92 100	1 1 1 1 0 0 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 1 1 0
1334*	32 100	1 1 1 1 0 0 0 0 1 0 1 0 0 1 1 1	0 1 1 0 0 1 1 0 0 1 1 0
1336*	92 400	1 1 1 1 0 0 0 0 1 0 1 1 0 1 1 1	1 1 1 0 0 1 1 0 0 1 1 0
1340	28 700	1 0 1 0 0 1 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 0 0 0 1
1342	96 800	1 0 1 0 0 1 0 0 1 0 1 0 0 0 1 0	1 0 1 0 0 1 1 0 0 0 0 1
1344*	32 800	1 0 1 0 0 1 0 0 1 0 1 0 0 1 1 1	0 1 1 0 0 1 1 0 0 0 0 1
1346*	92 700	1 0 1 0 0 1 0 0 1 0 1 0 1 1 1 1	1 1 1 0 0 1 1 0 0 0 0 1
1360	28 600	1 0 1 1 0 1 0 0 1 0 1 0 0 0 1 0	0 0 1 0 0 1 1 0 0 0 1 1
1362	96 900	1 0 1 1 0 1 0 0 1 0 1 1 0 0 1 0	1 0 1 0 0 1 1 0 0 0 1 1
1364*	32 900	1 0 1 1 0 1 0 0 1 0 1 0 0 1 1 1	0 1 1 0 0 1 1 0 0 0 1 1
1366*	92 600	1 0 1 1 0 1 0 0 1 0 1 0 1 1 1 1	1 1 1 0 0 1 1 0 0 0 1 1
1410	30 200	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 1 0 0
1412	96 300	1 1 1 0 0 0 0 0 0 0 0 0 1 1 0 1	1 0 1 0 0 0 0 0 1 1 0 0
1414*	31 300	1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 1 0 0
1416*	96 200	1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1	1 1 1 0 0 0 0 0 1 1 0 0
1420	30 000	1 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 0 1 0
1422	95 500	1 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0	1 0 1 0 0 0 0 0 1 0 1 0
1424*	31 500	1 0 1 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 0 1 0
1426*	96 000	1 0 1 1 0 0 0 0 0 0 0 0 1 1 1 1	1 1 1 0 0 0 0 0 1 0 1 0
1430	30 100	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 1 1 0
1432	96 400	1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 0	1 0 1 0 0 0 0 0 1 1 1 0
1434*	31 400	1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 1 1 0
1436*	96 100	1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1	1 1 1 0 0 0 0 0 1 1 1 0
1440	29 800	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 0 0 1
1442	95 700	1 0 1 0 0 1 0 0 0 0 0 0 1 0 1 0	1 0 1 0 0 0 0 0 1 0 0 1
1444*	31 700	1 0 1 0 0 1 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 0 0 1
1446*	95 800	1 0 1 0 0 1 0 0 0 0 0 0 1 1 1 1	1 1 1 0 0 0 0 0 1 0 0 1
1460	29 900	1 0 1 1 0 1 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 0 1 1
1462	95 600	1 0 1 1 0 1 0 0 0 0 0 0 1 1 0 1	1 0 1 0 0 0 0 0 1 0 1 1
1464*	31 600	1 0 1 1 0 1 0 0 0 0 0 0 1 1 1 1	0 1 1 0 0 0 0 0 1 0 1 1
1466*	95 900	1 0 1 1 0 1 0 0 0 0 0 0 1 1 1 1	1 1 1 0 0 0 0 0 1 0 1 1
1510	27 300	1 1 1 0 0 0 0 0 1 0 0 0 1 0 1 0	0 0 1 0 0 1 0 0 1 0 1 0
1512	98 200	1 1 1 0 0 0 0 0 1 0 0 0 1 1 0 1	1 0 1 0 0 1 0 0 1 0 1 0
1514*	34 200	1 1 1 0 0 0 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 1 0 1 0
1516*	91 300	1 1 1 0 0 0 0 0 1 0 0 0 1 1 1 1	1 1 1 0 0 1 0 0 1 0 1 0
1520	27 500	1 0 1 1 0 0 0 0 1 0 0 0 1 0 1 0	0 0 1 0 0 1 0 0 1 0 1 0
1522	98 000	1 0 1 1 0 0 0 0 1 0 0 0 1 1 0 1	1 0 1 0 0 1 0 0 1 0 1 0
1524*	34 000	1 0 1 1 0 0 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 1 0 1 0
1526*	91 500	1 0 1 1 0 0 0 0 1 0 0 0 1 1 1 1	1 1 1 0 0 1 0 0 1 0 1 0
1530	27 400	1 1 1 1 0 0 0 0 1 0 0 0 1 0 1 0	0 0 1 0 0 1 0 0 1 0 1 0
1532	98 100	1 1 1 1 0 0 0 0 1 0 0 0 1 0 1 0	1 0 1 0 0 1 0 0 1 0 1 0
1534*	34 100	1 1 1 1 0 0 0 0 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 1 0 1 0
1536*	91 400	1 1 1 1 0 0 0 0 1 0 0 0 1 1 1 1	1 1 1 0 0 1 0 0 1 0 1 0
1540	27 700	1 0 1 1 0 0 0 1 1 0 0 0 1 0 1 0	0 0 1 0 0 1 0 0 1 0 0 1
1542	97 800	1 0 1 1 0 0 0 1 1 0 0 0 1 1 0 1	1 0 1 0 0 1 0 0 1 0 0 1
1544*	31 800	1 0 1 1 0 0 0 1 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 1 0 0 1
1546*	91 700	1 0 1 1 0 0 0 1 1 0 0 0 1 1 1 1	1 1 1 0 0 1 0 0 1 0 0 1
1560	27 600	1 0 1 1 1 0 0 1 1 0 0 0 1 0 1 0	0 0 1 0 0 1 0 0 1 0 1 1
1562	97 900	1 0 1 1 1 0 0 1 1 0 0 0 1 1 0 1	1 0 1 0 0 1 0 0 1 0 1 1
1564*	31 900	1 0 1 1 1 0 0 1 1 0 0 0 1 1 1 1	0 1 1 0 0 1 0 0 1 0 1 1
1566*	91 600	1 0 1 1 1 0 0 1 1 0 0 0 1 1 1 1	1 1 1 0 0 1 0 0 1 0 1 1
1610	29 100	1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 0	0 0 1 0 0 0 0 0 1 1 0 0
1612	96 200	1 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0	1 0 1 0 0 0 0 0 1 1 0 0

1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is located in the thylakoid membranes of chloroplasts.

2. *Chlorophyll b* (Chl b) is an accessory pigment that absorbs light energy in the blue and orange regions of the visible spectrum. It is located in the thylakoid membranes of chloroplasts and transfers energy to Chl a.

3. *Carotenoids* are accessory pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the thylakoid membranes of chloroplasts and transfer energy to Chl a. Carotenoids also protect the photosynthetic apparatus from damage by reactive oxygen species.

4. *Xanthophylls* are a group of carotenoids that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the thylakoid membranes of chloroplasts and transfer energy to Chl a. Xanthophylls also play a role in photoprotection.

5. *Anthocyanins* are water-soluble pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the vacuoles of plant cells and are responsible for the red, purple, and blue colors of many flowers and fruits. Anthocyanins also have antioxidant properties.

6. *Flavonoids* are a group of pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the vacuoles of plant cells and are responsible for the yellow, orange, and red colors of many flowers and fruits. Flavonoids also have antioxidant properties.

7. *Phenolics* are a group of pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the vacuoles of plant cells and are responsible for the brown, black, and grey colors of many plants. Phenolics also have antioxidant properties.

8. *Anthraquinones* are a group of pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the vacuoles of plant cells and are responsible for the red, orange, and yellow colors of many flowers and fruits. Anthraquinones also have antioxidant properties.

9. *Anthrazoles* are a group of pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the vacuoles of plant cells and are responsible for the red, orange, and yellow colors of many flowers and fruits. Anthrazoles also have antioxidant properties.

10. *Anthracenes* are a group of pigments that absorb light energy in the blue and orange regions of the visible spectrum. They are located in the vacuoles of plant cells and are responsible for the red, orange, and yellow colors of many flowers and fruits. Anthracenes also have antioxidant properties.

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS																HEIGHT CODE POSITIONS											
ABCD	FECT	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> D <sub>2</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>		
1614*	32 200	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	1	0	0	0	1	1	1	0	0	
1616*	32 200	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	
1620	29 400	1	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0	1	1	0	1	0	
1622	36 000	1	0	1	1	0	0	0	0	0	0	1	1	1	1	0	1	0	1	0	0	0	1	1	0	1	0		
1624*	32 000	1	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0		
1626*	32 000	1	0	1	1	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0		
1628*	32 000	1	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0		
1630	29 400	1	1	1	1	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	1	0	0	1	1	1	0	0	
1632	36 000	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	
1634*	32 100	1	1	1	1	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	
1636*	32 100	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	
1638*	32 100	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	
1640	29 700	1	0	1	0	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	1	0	0	1	1	0	0	1	
1642	36 000	1	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0	1	
1644*	31 800	1	0	1	0	0	1	0	0	0	0	1	0	1	1	1	1	1	1	0	1	0	0	1	1	0	0	1	
1646*	32 700	1	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0	1	
1648*	29 400	1	0	1	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	1	0	0	1	1	0	1	1	
1650	29 400	1	0	1	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	1	0	0	1	1	0	1	1	
1652	36 000	1	0	1	1	0	1	0	0	0	0	1	1	1	1	0	1	0	0	1	0	0	1	1	0	1	1	1	
1654*	31 800	1	0	1	1	0	1	0	0	0	0	1	0	1	1	1	1	1	1	0	1	0	0	1	1	0	1		

TABLE 2

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS																HEIGHT CODE POSITIONS											
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	$\begin{matrix} D_4 \\ D_2 \text{ AND } A_1 \\ \text{SPI} \end{matrix}$	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>			
2140	10 800	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	
2142	114 700	1	0	0	0	1	1	1	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	
2144*	50 700	1	0	0	0	1	1	1	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	
2146*	74 800	1	0	0	0	1	1	1	0	1	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	1	0	
2160	10 900	1	0	0	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	
2162	114 600	1	0	0	1	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	
2164*	50 600	1	0	0	1	1	1	0	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	1	0	
2166*	74 900	1	0	0	1	1	1	0	0	1	0	0	1	0	1	0	1	1	0	1	0	0	0	0	0	1	1	0	
2210	112 200	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	
2212	112 300	1	1	0	0	1	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	
2214*	48 300	1	1	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	
2216*	72 200	1	1	0	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	
2220	112 300	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	
2222	112 500	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	
2224*	48 500	1	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	
2226*	72 000	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	
2230	112 100	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	
2232	112 400	1	1	0	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	1	1	0	
2234*	48 400	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	1	1	0	
2236*	72 100	1	1	0	1	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	
2240	12 800	1	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	
2242	112 700	1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	
2244*	48 700	1	0	0	0	1	1	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	
2246*	76 800	1	0	0	0	1	1	0	0	0	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	0	1	0	
2260	12 900	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	
2262	112 600	1	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	
2264*	48 600	1	0	0	1	1	1	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	
2266*	76 900	1	0	0	1	1	1	0	0	0	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	0	1	0	
2310	12 300	1	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	
2312	112 200	1	1	0	0	1	0	0	0	1	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	
2314*	48 200	1	1	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	
2316*	76 300	1	1	0	0	1	0	0	0	1	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	
2320	12 500	1	0	0	1	1	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	
2322	112 000	1	0	0	1	1	0	0	0	1	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	
2324*	48 000	1	0	0	1	1	0	0	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	
2326*	76 500	1	0	0	1	1	0	0	0	1	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	1	0	0	
2330	112 400	1	1	0	1	1	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	
2332	112 100	1	1	0	1	1	0	0	0	1	0	1	1	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	
2334*	48 100	1	1	0	1	1	0	0	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	
2336*	76 400	1	1	0	1	1	0	0	0	1	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	1	1	0	
2340	12 700	1	0	0	0	1	1	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	
2342	112 800	1	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	
2344*	48 800	1	0	0	0	1	1	0	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	
2346*	76 700	1	0	0	0	1	1	0	0	1	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	0	1	0	
2360	12 600	1	0	0	1	1	1	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	
2362	112 900	1	0	0	1	1	1	0	0	1	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	
2364*	48 900	1	0	0	1	1	1	0	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	
2366*	76 600	1	0	0	1	1	1	0	0	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	0	1	1	0	
2410	14 200	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	
2412	111 300	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	
2414*	47 300	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0						

TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
2514*	50 200	1 1 0 0 1 0 0 0 1 0 0 0 1 1 1 1	0 1 0 1 0 1 0 1 1 0 0
2516*	75 300	1 1 0 0 1 1 0 0 0 1 0 0 1 1 1 1	1 1 0 1 0 1 0 1 1 0 0
2520	11 500	1 0 0 1 1 1 0 0 0 1 0 0 0 1 0 1	0 0 0 1 0 1 0 1 0 1 0
2522	114 000	1 0 0 1 1 1 0 0 0 1 0 0 1 1 0 1	1 0 0 1 0 1 0 1 0 1 0
2524*	50 000	1 0 0 1 1 1 0 0 0 1 0 0 0 1 1 1	0 1 0 1 0 1 0 1 0 1 0
2526*	75 500	1 0 0 1 1 1 0 0 0 1 0 0 1 1 1 1	1 1 0 1 0 1 0 1 0 1 0
2530	11 400	1 1 0 1 1 1 0 0 0 1 0 0 0 1 0 1	0 0 0 1 0 1 0 1 0 1 1
2532	114 100	1 1 0 1 1 1 0 0 0 1 0 0 1 1 0 1	1 0 0 1 0 1 0 1 0 1 0
2534*	50 100	1 1 0 1 1 1 0 0 0 1 0 0 0 1 1 1	0 1 0 1 0 1 0 1 0 1 1
2536*	75 400	1 1 0 1 1 1 0 0 0 1 0 0 1 1 1 1	1 1 0 1 0 1 0 1 0 1 1
2540	11 700	1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 1	0 0 0 1 0 1 0 1 0 0 1
2542	113 800	1 0 0 0 1 1 0 0 0 1 0 0 1 1 0 1	1 0 0 1 0 1 0 1 0 0 1
2544*	49 800	1 0 0 0 1 1 0 0 0 1 0 0 0 1 1 1	0 1 0 1 0 1 0 1 0 0 1
2546*	75 700	1 0 0 0 1 1 0 0 0 1 0 0 1 1 1 1	1 1 0 1 0 1 0 1 0 0 1
2560	11 600	1 0 0 1 1 1 0 0 0 1 0 0 0 1 0 1	0 0 0 1 0 1 0 1 0 1 1
2562	113 900	1 0 0 1 1 1 0 0 0 1 0 0 1 1 0 1	1 0 0 1 0 1 0 1 0 1 1
2564*	49 900	1 0 0 1 1 1 0 0 0 1 0 0 0 1 1 1	0 1 0 1 0 1 0 1 0 1 1
2566*	75 600	1 0 0 1 1 1 0 0 0 1 0 0 1 1 1 1	1 1 0 1 0 1 0 1 0 1 1
2610	13 300	1 1 0 0 1 0 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 1 0 0
2612	112 200	1 1 0 0 1 0 0 0 0 0 0 1 1 1 0 1	1 0 0 1 0 0 1 1 1 0 0
2614*	48 200	1 1 0 0 1 0 0 0 0 0 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 0 0
2616*	77 300	1 1 0 0 1 0 0 0 0 0 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 0 0
2620	13 500	1 0 0 1 1 0 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 0 1 0
2622	112 000	1 0 0 1 1 0 0 0 0 0 0 1 1 1 0 1	1 0 0 1 0 0 1 1 0 1 0
2624*	48 000	1 0 0 1 1 0 0 0 0 0 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 0 0
2626*	77 500	1 0 0 1 1 0 0 0 0 0 0 1 1 1 1 1	1 1 0 1 0 0 1 1 0 1 0
2630	13 400	1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 1	0 0 0 1 0 0 1 1 1 1 0
2632	112 100	1 1 0 1 1 0 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 1 0
2634*	48 100	1 1 0 1 1 0 0 0 0 0 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 1 0
2636*	77 400	1 1 0 1 1 0 0 0 0 0 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 1 0
2640	13 700	1 0 0 0 1 1 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 1 0 0
2642	111 800	1 0 0 0 1 1 0 0 0 0 0 1 1 1 0 1	1 0 0 1 0 0 1 1 1 0 0
2644*	47 800	1 0 0 0 1 1 0 0 0 0 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 0 0
2646*	77 700	1 0 0 0 1 1 0 0 0 0 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 0 0
2660	13 600	1 0 0 1 1 1 0 0 0 0 1 0 1 0 1 0	0 0 0 1 0 0 1 1 1 0 1
2662	111 900	1 0 0 1 1 1 0 0 0 0 0 1 1 0 1 0	1 0 0 1 0 0 1 1 1 0 1
2664*	47 900	1 0 0 1 1 1 0 0 0 0 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 0 1
2666*	77 600	1 0 0 1 1 1 0 0 0 0 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 0 1
2710	12 200	1 1 0 0 1 0 0 0 0 1 0 1 0 1 0 1	0 0 0 1 0 0 1 1 1 0 0
2712	113 300	1 1 0 0 1 0 0 0 0 1 0 1 1 1 0 1	1 0 0 1 0 0 1 1 1 1 0
2714*	49 300	1 1 0 0 1 0 0 0 0 1 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 1 0
2716*	76 200	1 1 0 0 1 0 0 0 0 1 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 1 0
2720	12 000	1 0 0 1 1 0 0 0 0 1 0 1 0 1 0 1	0 0 0 1 0 0 1 1 1 0 1
2722	113 500	1 0 0 1 1 0 0 0 0 1 0 1 1 1 0 1	1 0 0 1 0 0 1 1 1 0 1
2724*	49 500	1 0 0 1 1 0 0 0 0 1 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 0 1
2726*	76 000	1 0 0 1 1 0 0 0 0 1 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 0 1
2730	12 100	1 1 0 1 1 0 0 0 0 1 0 1 0 1 0 1	0 0 0 1 0 0 1 1 1 1 0
2732	113 400	1 1 0 1 1 0 0 0 0 1 0 1 1 1 0 1	1 0 0 1 0 0 1 1 1 1 0
2734*	49 400	1 1 0 1 1 0 0 0 0 1 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 1 0
2736*	76 100	1 1 0 1 1 0 0 0 0 1 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 1 0
2740	11 800	1 0 0 0 1 1 0 0 0 1 0 1 0 1 0 1	0 0 0 1 0 0 1 1 1 0 0
2742	113 700	1 0 0 0 1 1 0 0 0 1 0 1 1 1 0 1	1 0 0 1 0 0 1 1 1 0 0
2744*	49 700	1 0 0 0 1 1 0 0 0 1 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 0 0
2746*	75 800	1 0 0 0 1 1 0 0 0 1 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 0 0
2760	11 900	1 0 0 0 1 1 1 0 0 1 0 1 0 1 0 1	0 0 0 1 0 0 1 1 1 0 1
2762	113 600	1 0 0 0 1 1 1 0 0 1 0 1 1 0 1 1	1 0 0 1 0 0 1 1 1 1 1
2764*	49 600	1 0 0 0 1 1 1 0 0 1 0 1 0 1 1 1	0 1 0 1 0 0 1 1 1 1 1
2766*	75 900	1 0 0 0 1 1 1 0 0 1 0 1 1 1 1 1	1 1 0 1 0 0 1 1 1 1 1
3010	15 200	1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0
3012	110 300	1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 0	1 0 1 1 0 0 0 0 0 0 0
3014*	46 300	1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 1	0 1 1 1 0 0 0 0 0 0 0
3016*	79 200	1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 1	1 1 1 1 0 0 0 0 0 0 0
3020	15 300	1 0 1 1 1 0 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0
3022	110 500	1 0 1 1 1 0 0 0 0 0 0 0 0 0 1 0	1 0 1 1 0 0 0 0 0 0 0
3024*	46 500	1 0 1 1 1 0 0 0 0 0 0 0 0 0 1 1	0 1 1 1 0 0 0 0 0 0 0
3026*	79 500	1 0 1 1 1 0 0 0 0 0 0 0 0 0 1 1	1 1 1 1 0 0 0 0 0 0 0
3030	15 100	1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0
3032	110 400	1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 0	1 0 1 1 0 0 0 0 0 0 0
3034*	46 400	1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 1	0 1 1 1 0 0 0 0 0 0 0
3036*	79 100	1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 1	1 1 1 1 0 0 0 0 0 0 0

TABLE 2

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
3042	10 700	1 0 1 0 1 1 0 0 0 0 0 0 0 0 1 0	0 0 1 1 0 0 0 0 0 0 0 1
3044*	10 700	1 0 1 0 1 1 0 0 0 0 0 0 0 0 1 1	1 0 1 1 0 0 0 0 0 0 0 1
3046	10 700	1 0 1 0 1 1 0 0 0 0 0 0 0 0 1 1	0 1 1 1 0 0 0 0 0 0 0 1
3048	10 700	1 0 1 0 1 1 0 0 0 0 0 0 0 0 1 1	1 1 1 1 0 0 0 0 0 0 0 1
3062	600	1 0 1 1 1 1 0 0 0 0 0 0 1 0 0 1	1 0 1 1 0 0 0 0 0 0 1 1
3064*	46 600	1 0 1 1 1 1 0 0 0 0 0 0 0 1 1 1	0 1 1 1 0 0 0 0 0 0 1 1
3066*	78 900	1 0 1 1 1 1 0 0 0 0 0 0 1 0 1 1	1 1 1 1 0 0 0 0 0 0 1 1
3110	18 300	1 1 1 0 1 0 0 0 1 0 0 0 0 0 1 0	0 0 1 1 0 1 0 0 1 0 0 1
3112	107 200	1 1 1 0 1 0 0 0 1 0 0 0 1 0 0 1	1 0 1 1 0 1 0 0 1 0 0 0
3114*	43 200	1 1 1 0 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 0 1 0 0 1 0 0 0
3116*	82 300	1 1 1 0 1 0 0 0 1 0 0 0 1 0 1 1	1 1 1 1 0 1 0 0 1 0 0 0
3120	18 500	1 1 1 1 1 0 0 0 1 0 0 0 0 0 1 0	0 0 1 1 0 1 0 0 0 0 1 0
3122	107 000	1 1 1 1 1 0 0 0 1 0 0 0 1 0 0 1	1 0 1 1 0 1 0 0 0 0 1 0
3124*	43 000	1 1 1 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 0 1 0 0 0 0 1 0
3126*	82 500	1 1 1 1 1 0 0 0 1 0 0 0 1 0 1 1	1 1 1 1 0 1 0 0 0 0 1 0
3130	18 400	1 1 1 1 1 0 0 0 1 0 0 0 0 0 1 0	0 0 1 1 0 1 0 0 0 0 1 0
3132	107 100	1 1 1 1 1 0 0 0 1 0 0 0 1 0 0 1	1 0 1 1 0 1 0 0 0 0 1 0
3134*	43 100	1 1 1 1 1 0 0 0 1 0 0 0 0 1 1 1	0 1 1 1 0 1 0 0 0 0 1 0
3136*	82 400	1 1 1 1 1 0 0 0 1 0 0 0 1 0 1 1	1 1 1 1 0 1 0 0 0 0 1 0
3140	18 700	1 0 1 0 1 1 0 0 1 0 0 0 0 0 1 0	0 0 1 1 0 1 0 0 0 0 0 1
3142	106 800	1 0 1 0 1 1 0 0 1 0 0 0 1 0 0 1	1 0 1 1 0 1 0 0 0 0 0 1
3144*	42 800	1 0 1 0 1 1 0 0 1 0 0 0 0 1 1 1	0 1 1 1 0 1 0 0 0 0 0 1
3146*	82 700	1 0 1 0 1 1 0 0 1 0 0 0 1 0 1 1	1 1 1 1 0 1 0 0 0 0 0 1
3160	18 600	1 0 1 1 1 1 0 0 1 0 0 0 0 0 1 0	0 0 1 1 0 1 0 0 0 0 0 1
3162	106 900	1 0 1 1 1 1 0 0 1 0 0 0 1 0 0 1	1 0 1 1 0 1 0 0 0 0 0 1
3164*	42 900	1 0 1 1 1 1 0 0 1 0 0 0 0 1 1 1	0 1 1 1 0 1 0 0 0 0 0 1
3166*	82 600	1 0 1 1 1 1 0 0 1 0 0 0 1 0 1 1	1 1 1 1 0 1 0 0 0 0 0 1
3210	16 300	1 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1	0 0 1 1 0 0 1 0 1 0 0 0
3212	109 200	1 1 1 0 1 0 0 0 0 0 0 1 1 0 0 1	1 0 1 1 0 0 1 0 1 0 0 0
3214*	45 200	1 1 1 0 1 0 0 0 0 0 0 1 0 0 1 1	0 1 1 1 0 0 1 0 1 0 0 0
3216*	80 300	1 1 1 0 1 0 0 0 0 0 0 1 1 0 1 1	1 1 1 1 0 0 1 0 1 0 0 0
3220	16 500	1 0 1 1 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 1 0
3222	109 000	1 0 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 0 0 1 0 0 0 1 0
3224*	45 000	1 0 1 1 1 0 0 0 0 0 1 0 0 1 1 1	0 1 1 1 0 0 1 0 0 0 1 0
3226*	80 500	1 0 1 1 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 1 0 0 0 1 0
3230	16 400	1 1 1 1 1 0 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 1 0
3232	109 100	1 1 1 1 1 0 0 0 0 0 1 1 0 0 1 0	1 0 1 1 0 0 1 0 0 0 1 0
3234*	45 100	1 1 1 1 1 0 0 0 0 0 1 0 0 1 1 1	0 1 1 1 0 0 1 0 0 0 1 0
3236*	80 400	1 1 1 1 1 0 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 1 0 0 0 1 0
3240	16 700	1 0 1 0 1 1 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 0 1
3242	108 800	1 0 1 0 1 1 0 0 0 0 1 1 0 0 1 0	1 0 1 1 0 0 1 0 0 0 0 1
3244*	44 800	1 0 1 0 1 1 0 0 0 0 1 0 0 1 1 1	0 1 1 1 0 0 1 0 0 0 0 1
3246*	80 700	1 0 1 0 1 1 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 1 0 0 0 0 1
3260	16 600	1 0 1 1 1 1 0 0 0 0 1 0 0 0 1 0	0 0 1 1 0 0 1 0 0 0 0 1
3262	108 900	1 0 1 1 1 1 0 0 0 0 1 1 0 0 1 0	1 0 1 1 0 0 1 0 0 0 0 1
3264*	44 900	1 0 1 1 1 1 0 0 0 0 1 0 0 1 1 1	0 1 1 1 0 0 1 0 0 0 0 1
3266*	80 600	1 0 1 1 1 1 0 0 0 0 1 1 0 1 1 1	1 1 1 1 0 0 1 0 0 0 0 1
3310	17 200	1 1 1 0 1 0 0 0 1 0 1 0 0 0 1 0	0 0 1 1 0 1 1 0 1 0 0 0
3312	108 100	1 1 1 0 1 0 0 0 1 0 1 1 0 0 1 0	1 0 1 1 0 1 1 0 1 0 0 0
3314*	44 300	1 1 1 0 1 0 0 0 1 0 1 0 0 1 1 1	0 1 1 1 0 1 1 0 1 0 0 0
3316*	81 200	1 1 1 0 1 0 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 1 1 0 1 0 0 0
3320	17 000	1 0 1 1 1 0 0 0 1 0 1 0 0 0 1 0	0 0 1 1 0 1 1 0 1 0 0 0
3322	108 500	1 0 1 1 1 0 0 0 1 0 1 1 0 0 1 0	1 0 1 1 0 1 1 0 1 0 0 0
3324*	44 500	1 0 1 1 1 0 0 0 1 0 1 0 0 1 1 1	0 1 1 1 0 1 1 0 1 0 0 0
3326*	81 000	1 0 1 1 1 0 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 1 1 0 1 0 0 0
3330	17 100	1 1 1 1 1 0 0 0 1 0 1 0 0 0 1 0	0 0 1 1 0 1 1 0 1 0 0 0
3332	108 400	1 1 1 1 1 0 0 0 1 0 1 1 0 0 1 0	1 0 1 1 0 1 1 0 1 0 0 0
3334*	44 400	1 1 1 1 1 0 0 0 1 0 1 0 0 1 1 1	0 1 1 1 0 1 1 0 1 0 0 0
3336*	81 100	1 1 1 1 1 0 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 1 1 0 1 0 0 0
3340	16 800	1 0 1 0 1 1 0 0 1 0 1 0 0 0 1 0	0 0 1 1 0 1 1 0 1 0 0 0
3342	108 700	1 0 1 0 1 1 0 0 1 0 1 1 0 0 1 0	1 0 1 1 0 1 1 0 1 0 0 0
3344*	44 700	1 0 1 0 1 1 0 0 1 0 1 0 0 1 1 1	0 1 1 1 0 1 1 0 1 0 0 0
3346*	80 800	1 0 1 0 1 1 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 1 1 0 1 0 0 0
3360	16 900	1 0 1 1 1 1 0 0 1 0 1 0 0 0 1 0	0 0 1 1 0 1 1 0 1 0 0 0
3362	108 600	1 0 1 1 1 1 0 0 1 0 1 1 0 0 1 0	1 0 1 1 0 1 1 0 1 0 0 0
3364*	44 600	1 0 1 1 1 1 0 0 1 0 1 0 0 1 1 1	0 1 1 1 0 1 1 0 1 0 0 0
3366*	80 900	1 0 1 1 1 1 0 0 1 0 1 1 0 1 1 1	1 1 1 1 0 1 1 0 1 0 0 0
3410	15 300	1 1 1 0 1 0 0 0 0 0 0 0 0 1 0 0	0 0 1 1 0 0 0 0 1 1 0 0
3412	110 200	1 1 1 0 1 0 0 0 0 0 0 0 1 1 0 0	1 0 1 1 0 0 0 0 1 1 0 0



TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS																HEIGHT CODE POSITIONS											
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>3</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> D <sub>2</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>		
3414*	46 200	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	0	0	0	1	1	0	0	
3416*	79 300	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	0	0	0	1	1	0	0	
3420	15 500	1	0	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	1	0	
3422	110 000	1	0	1	1	1	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	1	0		
3424*	46 000	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0		
3426*	79 400	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0		
3430	15 400	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	1	0	
3432	110 100	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1	1	1	0		
3434*	46 100	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	1	1	0		
3436*	79 400	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	1	1	0		
3440	15 700	1	0	1	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	1	
3442	109 800	1	0	1	0	1	1	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	0	1		
3444*	45 800	1	0	1	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	0	1		
3446*	79 700	1	0	1	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	0	1		
3460	15 600	1	0	1	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0		
3462	109 900	1	0	1	1	1	1	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	1	1		
3464*	45 900	1	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	1	0	1	1		
3466*	79 600	1	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	1	1		
3510	18 200	1	1	1	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0		
3512	107 300	1	1	1	0	1	0	0	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	1	1	0	0		
3514*	43 300	1	1	1	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	0	0		
3516*	82 200	1	1	1	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0	1	1	0	0	1	1	0	0		
3520	18 000	1	0	1	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0		
3522	107 500	1	0	1	1	1	0	0	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	1	0		
3524*	43 500	1	0	1	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	1	0	1	0		
3526*	82 000	1	0	1	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0		
3530	18 100	1	1	1	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	0		
3532	107 400	1	1	1	1	1	0	0	0	1	0	0	0	1	1	0	1	0	0	0	1	1	0	0	1	1	0		
3534*	43 400	1	1	1	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	1	0		
3536*	82 100	1	1	1	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0	1	1	0	0	1	1	1	0		
3540	17 800	1	0	1	0	1	1	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0		
3542	107 700	1	0	1	0	1	1	0	0	1	0	0	0	1	1	0	1	0	0	0	1	0	0	0	1	0	0		
3544*	43 700	1	0	1	0	1	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1		
3546*	81 800	1	0	1	0	1	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1		
3560	17 900	1	0	1	1	1	1	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0		
3562	107 600	1	0	1	1	1	1	0	0	1	0	0	0	1	1	0	1	0	0	0	1	0	0	0	1	1	0		
3564*	43 600	1	0	1	1	1	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	1	1	0		
3566*	81 900	1	0	1	1	1	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	1	0	0		
3610	16 200	1	1	1	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0	1	0	0		
3612	109 300	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	1	1	0	0		
3614*	45 300	1	1	1	0	1	0	0	0	0	0	0	0	1	0	1	1	1	0	0	1	1	0	0	1	0	0		
3616*	80 200	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	1	0	0		
3620	16 000	1	0	1	1	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0	1	0	0		
3622	109 500	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	1	0	0		
3624*	45 500	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	0	0	1	0	0		
3626*	80 000	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0		
3630	16 100	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	1	1	1	0	0		
3632	109 400	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0		
3634*	45 400	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	1	1	1	0	0		
3636*	80 100	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	0		
3640	15 800	1	0	1	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	0	0	1		
3642	109 700	1	0	1	0	1	1	0	0	0	0	0	0	1	1	1	0	1	0	0									

TABLE 2

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS																HEIGHT CODE POSITIONS											
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>		
3740	17 700	1	0	1	0	1	1	1	0	1	0	1	1	0	1	1	0	0	0	1	1	0	1	1	0	0	1	1	
3742	107 800	1	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3744*	43 800	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3746*	81 700	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3760	17 600	1	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1		
3762	107 900	1	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3764*	43 900	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3766*	81 800	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4010	6 300	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0		
4012	119 200	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0		
4014*	55 200	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0		
4016*	70 300	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0		
4020	6 500	1	1	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0		
4022	119 300	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0		
4024*	55 000	1	0	0	1	0	0	1	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	0		
4026*	70 400	1	0	0	1	0	0	1	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	0		
4030	6 400	1	1	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0		
4032	119 100	1	1	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0		
4034*	55 100	1	1	0	0	1	0	0	1	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	0		
4036*	70 400	1	1	0	0	1	0	0	1	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	0		
4040	6 700	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1		
4042	118 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1		
4044*	54 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1		
4046*	70 700	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1		
4060	6 600	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1		
4062	118 900	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1		
4064*	54 900	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1		
4066*	70 600	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	1	1		
4110	3 200	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0		
4112	122 300	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0		
4114*	58 300	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4116*	67 200	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4120	3 000	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4122	122 500	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4124*	58 500	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4126*	67 300	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4130	3 100	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4132	122 400	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4134*	58 400	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4136*	67 100	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4140	7 800	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1		
4142	122 700	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1		
4144*	58 700	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1		
4146*	44 800	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1		
4160	2 900	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1		
4162	122 600	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1		
4164*	58 600	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1		
4166*	46 900	1	0	0	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	1	1		
4210	5 200	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0		
4212	120 300	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0		
4214*	56 300	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4216*	40 200	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4220	6 000	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4222	120 500	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4224*	56 500	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4226*	40 300	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4230	6 100	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4232	120 400	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
4234*	56 400	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4236*	40 100	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0		
4240	4 800	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1		
4242	120 700	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1		
4244*	56 700	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1		
4246*	48 800	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1		
4260	4 900	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0</							

TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS																HEIGHT CODE POSITIONS											
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> AND D <sub>2</sub> SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>		
4414*	57 200	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0
4416*	58 200	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	
4420*	4 500	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	
4422*	121 000	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	
4424*	57 000	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	
4426*	68 400	1	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	
4430*	4 400	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	
4432*	121 100	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	
4434*	57 100	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4436*	58 400	1	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	
4440*	4 700	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4442*	120 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4444*	56 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4446*	58 700	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4448*	4 600	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4450*	120 900	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4452*	56 900	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4454*	58 600	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4456*	6 200	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4458*	119 300	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4460*	55 100	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4462*	70 200	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4464*	6 000	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4466*	119 500	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4468*	55 500	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4470*	70 000	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4472*	6 100	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4474*	119 400	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4476*	55 400	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4478*	70 100	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4480*	7 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4482*	119 700	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4484*	55 700	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4486*	59 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4488*	5 900	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4490*	119 600	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4492*	55 600	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4494*	59 900	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4496*	6 300	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4498*	120 200	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4500*	58 200	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4502*	67 300	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4504*	7 500	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4506*	120 000	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4508*	58 000	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4510*	67 400	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4512*	7 200	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4514*	119 800	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
4516*	55 200	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4518*	59 000	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	
4520*	6 400	1	1	0	0																								

TABLE 2

EQ JIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
4640	5 700	1 0 0 0 0 1 1 0 0 0 1 0 1 0 1 0	0 0 0 0 1 0 1 1 0 0 1
4642	119 800	1 0 0 0 0 1 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 1 0 0 1
4644*	55 800	1 0 0 0 0 1 1 0 0 0 1 0 1 1 1 1	0 1 0 0 1 0 1 1 1 0 0 1
4646*	69 700	1 0 0 0 0 1 1 0 0 0 1 1 1 1 1 1	1 1 0 0 1 0 1 1 1 0 0 1
4648	5 600	1 0 0 1 0 1 1 0 0 0 1 0 1 0 1 0	0 0 0 0 1 0 1 1 1 0 1 1
4650	119 900	1 0 0 1 0 1 1 0 0 0 1 1 1 0 1 0	1 0 0 0 1 0 1 1 1 0 1 1
4652*	55 900	1 0 0 1 0 1 1 0 0 0 1 0 1 1 1 1	0 1 0 0 1 0 1 1 1 0 1 1
4654*	69 800	1 0 0 1 0 1 1 0 0 0 1 1 1 1 1 1	1 1 0 0 1 0 1 1 1 0 1 1
4710	4 200	1 1 0 0 0 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 1 1 1 1 1 0 0 0
4712	121 300	1 1 0 0 0 0 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 1 1 0 0
4714*	57 300	1 1 0 0 0 0 1 0 1 0 1 1 1 1 1 1	0 1 0 0 1 1 1 1 1 1 0 0
4716*	68 200	1 1 0 0 0 0 1 0 1 0 1 1 1 1 1 1	1 1 0 0 1 1 1 1 1 1 0 0
4720	4 000	1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 1 1 1 1 1 0 1 0
4722	121 500	1 0 0 1 0 0 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 1 0 1 0
4724*	57 400	1 0 0 1 0 0 1 0 1 0 1 0 1 1 1 1	0 1 0 0 1 1 1 1 1 0 1 0
4726*	68 000	1 0 0 1 0 0 1 0 1 0 1 0 1 1 1 1	1 1 0 0 1 1 1 1 1 0 1 0
4730	4 100	1 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 1 1 1 1 1 1 0 0
4732	121 600	1 1 0 1 0 0 1 0 1 0 1 0 1 1 0 1	1 0 0 0 1 1 1 1 1 1 1 0
4734*	57 400	1 1 0 1 0 0 1 0 1 0 1 0 1 1 1 1	0 1 0 0 1 1 1 1 1 1 1 0
4736*	68 100	1 1 0 1 0 0 1 0 1 0 1 0 1 1 1 1	1 1 0 0 1 1 1 1 1 1 1 0
4740	3 800	1 0 0 0 0 0 1 1 0 1 0 1 0 1 0 1	0 0 0 0 1 1 1 1 1 0 0 1
4742	121 700	1 0 0 0 0 0 1 1 0 1 0 1 1 0 1 0	1 0 0 0 1 1 1 1 1 0 0 1
4744*	57 700	1 0 0 0 0 0 1 1 0 1 0 1 0 1 1 1	0 1 0 0 1 1 1 1 1 0 0 1
4746*	67 800	1 0 0 0 0 0 1 1 0 1 0 1 1 1 1 1	1 1 0 0 1 1 1 1 1 0 0 1
4750	3 900	1 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0	0 0 0 0 1 1 1 1 1 0 1 1
4762	121 600	1 0 0 1 0 1 1 0 1 0 1 1 1 0 1 0	1 0 0 0 1 1 1 1 1 0 1 1
4764*	57 600	1 0 0 1 0 1 1 0 1 0 1 0 1 1 1 1	0 1 0 0 1 1 1 1 1 0 1 1
4766*	67 900	1 0 0 1 0 1 1 0 1 0 1 1 1 1 1 1	1 1 0 0 1 1 1 1 1 0 1 1
5010	23 200	1 1 1 0 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 1 0 0 0 1 0 0
5012	102 300	1 1 1 0 0 0 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 0 1 0 0 0 1 0 0
5014*	38 300	1 1 1 0 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 1 0 0
5016*	47 200	1 1 1 0 0 0 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 0 0 0 0 1 0 0
5020	23 000	1 0 1 1 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 0
5022	102 500	1 0 1 1 0 0 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 0 0 0 0 0 1 0
5024*	38 500	1 0 1 1 0 0 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0 1 0
5026*	47 000	1 0 1 1 0 0 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 0 0 0 0 0 1 0
5030	23 100	1 1 1 1 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 0
5032	102 400	1 1 1 1 0 0 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 0 0 0 0 0 1 0
5034*	38 400	1 1 1 1 0 0 1 0 0 0 0 0 1 0 1 1	0 1 1 0 1 0 0 0 0 0 1 0
5036*	47 100	1 1 1 1 0 0 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 0 0 0 0 0 1 0
5040	22 800	1 0 1 0 0 1 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 0 1
5042	102 700	1 0 1 0 0 1 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 0 0 0 0 0 0 1
5044*	38 700	1 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0 0 1
5046*	46 800	1 0 1 0 0 1 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 0 0 0 0 0 0 1
5060	22 900	1 0 1 1 0 1 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 0 0 0 0 1 1
5062	102 600	1 0 1 1 0 1 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 0 0 0 0 0 1 1
5064*	38 600	1 0 1 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 0 0 0 0 0 1 1
5066*	46 900	1 0 1 1 0 1 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 0 0 0 0 0 1 1
5110	26 300	1 1 1 0 0 0 1 0 1 0 0 0 0 0 1 0	0 0 1 0 1 1 0 0 0 1 0 0
5112	99 200	1 1 1 0 0 0 1 0 1 0 0 0 1 0 0 1	1 0 1 0 1 1 0 0 0 1 0 0
5114*	35 200	1 1 1 0 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 1 0 0
5116*	90 300	1 1 1 0 0 0 1 0 1 0 0 0 1 0 1 1	1 1 1 0 1 1 0 0 0 1 0 0
5120	26 500	1 0 1 1 0 0 1 0 1 0 0 0 0 0 1 0	0 0 1 0 1 1 0 0 0 1 0 0
5122	99 000	1 0 1 1 0 0 1 0 1 0 0 0 1 0 1 0	1 0 1 0 1 1 0 0 0 1 0 0
5124*	35 000	1 0 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 1 0 0
5126*	90 500	1 0 1 1 0 0 1 0 1 0 0 0 1 0 1 1	1 1 1 0 1 1 0 0 0 1 0 0
5130	26 400	1 1 1 1 0 0 1 0 1 0 0 0 0 1 1 0	0 0 1 0 1 1 0 0 0 1 1 0
5132	99 100	1 1 1 1 0 0 1 0 1 0 0 0 1 0 0 1	1 0 1 0 1 1 0 0 0 1 1 0
5134*	35 100	1 1 1 1 0 0 1 0 1 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 1 1 0
5136*	90 400	1 1 1 1 0 0 1 0 1 0 0 0 1 0 1 1	1 1 1 0 1 1 0 0 0 1 1 0
5140	26 700	1 0 1 0 0 1 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 1 0 0 0 0 1 1
5142	98 800	1 0 1 0 0 1 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 1 0 0 0 0 0 1
5144*	34 800	1 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0 0 1
5146*	90 700	1 0 1 0 0 1 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 1 0 0 0 0 0 1
5160	26 600	1 0 1 1 0 1 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 1 0 0 0 0 1 1
5162	98 900	1 0 1 1 0 1 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 1 0 0 0 0 0 1
5164*	34 900	1 0 1 1 0 1 1 0 0 0 0 0 0 1 1 1	0 1 1 0 1 1 0 0 0 0 0 1
5166*	90 600	1 0 1 1 0 1 1 0 0 0 0 0 1 0 1 1	1 1 1 0 1 1 0 0 0 0 0 1
5210	24 300	1 1 1 0 0 0 1 0 0 0 0 0 0 0 1 0	0 0 1 0 1 0 1 0 1 0 0 0
5212	121 200	1 1 1 0 0 0 1 0 0 0 0 0 1 0 0 1	1 0 1 0 1 0 1 0 1 0 0 0

1. **Introduction**  
 2. **Background**  
 3. **Methodology**  
 4. **Results**  
 5. **Discussion**  
 6. **Conclusion**  
 7. **References**  
 8. **Appendix**  
 9. **Notes**  
 10. **Tables**  
 11. **Figures**  
 12. **Supplementary Materials**  
 13. **Author Contributions**  
 14. **Conflicts of Interest**  
 15. **Acknowledgments**  
 16. **References**  
 17. **Appendix**  
 18. **Notes**  
 19. **Tables**  
 20. **Figures**  
 21. **Supplementary Materials**  
 22. **Author Contributions**  
 23. **Conflicts of Interest**  
 24. **Acknowledgments**  
 25. **References**  
 26. **Appendix**  
 27. **Notes**  
 28. **Tables**  
 29. **Figures**  
 30. **Supplementary Materials**  
 31. **Author Contributions**  
 32. **Conflicts of Interest**  
 33. **Acknowledgments**  
 34. **References**  
 35. **Appendix**  
 36. **Notes**  
 37. **Tables**  
 38. **Figures**  
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 41. **Conflicts of Interest**  
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 44. **Appendix**  
 45. **Notes**  
 46. **Tables**  
 47. **Figures**  
 48. **Supplementary Materials**  
 49. **Author Contributions**  
 50. **Conflicts of Interest**  
 51. **Acknowledgments**  
 52. **References**  
 53. **Appendix**  
 54. **Notes**  
 55. **Tables**  
 56. **Figures**  
 57. **Supplementary Materials**  
 58. **Author Contributions**  
 59. **Conflicts of Interest**  
 60. **Acknowledgments**  
 61. **References**  
 62. **Appendix**  
 63. **Notes**  
 64. **Tables**  
 65. **Figures**  
 66. **Supplementary Materials**  
 67. **Author Contributions**  
 68. **Conflicts of Interest**  
 69. **Acknowledgments**  
 70. **References**  
 71. **Appendix**  
 72. **Notes**  
 73. **Tables**  
 74. **Figures**  
 75. **Supplementary Materials**  
 76. **Author Contributions**  
 77. **Conflicts of Interest**  
 78. **Acknowledgments**  
 79. **References**  
 80. **Appendix**  
 81. **Notes**  
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 83. **Figures**  
 84. **Supplementary Materials**  
 85. **Author Contributions**  
 86. **Conflicts of Interest**  
 87. **Acknowledgments**  
 88. **References**  
 89. **Appendix**  
 90. **Notes**  
 91. **Tables**  
 92. **Figures**  
 93. **Supplementary Materials**  
 94. **Author Contributions**  
 95. **Conflicts of Interest**  
 96. **Acknowledgments**  
 97. **References**  
 98. **Appendix**  
 99. **Notes**  
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 101. **Figures**  
 102. **Supplementary Materials**  
 103. **Author Contributions**  
 104. **Conflicts of Interest**  
 105. **Acknowledgments**  
 106. **References**  
 107. **Appendix**  
 108. **Notes**  
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 110. **Figures**  
 111. **Supplementary Materials**  
 112. **Author Contributions**  
 113. **Conflicts of Interest**  
 114. **Acknowledgments**  
 115. **References**  
 116. **Appendix**  
 117. **Notes**  
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 119. **Figures**  
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 121. **Author Contributions**  
 122. **Conflicts of Interest**  
 123. **Acknowledgments**  
 124. **References**  
 125. **Appendix**  
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 132. **Acknowledgments**  
 133. **References**  
 134. **Appendix**  
 135. **Notes**  
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 137. **Figures**  
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 142. **References**  
 143. **Appendix**  
 144. **Notes**  
 145. **Tables**  
 146. **Figures**  
 147. **Supplementary Materials**  
 148. **Author Contributions**  
 149. **Conflicts of Interest**  
 150. **Acknowledgments**  
 151. **References**  
 152. **Appendix**  
 153. **Notes**  
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 155. **Figures**  
 156. **Supplementary Materials**  
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 158. **Conflicts of Interest**  
 159. **Acknowledgments**  
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 162. **Notes**  
 163. **Tables**  
 164. **Figures**  
 165. **Supplementary Materials**  
 166. **Author Contributions**  
 167. **Conflicts of Interest**  
 168. **Acknowledgments**  
 169. **References**  
 170. **Appendix**  
 171. **Notes**  
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 173. **Figures**  
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 175. **Author Contributions**  
 176. **Conflicts of Interest**  
 177. **Acknowledgments**  
 178. **References**  
 179. **Appendix**  
 180. **Notes**  
 181. **Tables**  
 182. **Figures**  
 183. **Supplementary Materials**  
 184. **Author Contributions**  
 185. **Conflicts of Interest**  
 186. **Acknowledgments**  
 187. **References**  
 188. **Appendix**  
 189. **Notes**  
 190. **Tables**  
 191. **Figures**  
 192. **Supplementary Materials**  
 193. **Author Contributions**  
 194. **Conflicts of Interest**  
 195. **Acknowledgments**  
 196. **References**  
 197. **Appendix**  
 198. **Notes**  
 199. **Tables**  
 200. **Figures**  
 201. **Supplementary Materials**  
 202. **Author Contributions**  
 203. **Conflicts of Interest**  
 204. **Acknowledgments**  
 205. **References**  
 206. **Appendix**  
 207. **Notes**  
 208. **Tables**  
 209. **Figures**  
 210. **Supplementary Materials**  
 211. **Author Contributions**  
 212. **Conflicts of Interest**  
 213. **Acknowledgments**  
 214. **References**  
 215. **Appendix**  
 216. **Notes**  
 217. **Tables**  
 218. **Figures**  
 219. **Supplementary Materials**  
 220. **Author Contributions**  
 221. **Conflicts of Interest**  
 222. **Acknowledgments**  
 223. **References**  
 224. **Appendix**  
 225. **Notes**  
 226. **Tables**  
 227. **Figures**  
 228. **Supplementary Materials**  
 229. **Author Contributions**  
 230. **Conflicts of Interest**  
 231. **Acknowledgments**  
 232. **References**  
 233. **Appendix**  
 234. **Notes**  
 235. **Tables**  
 236. **Figures**  
 237. **Supplementary Materials**  
 238. **Author Contributions**  
 239. **Conflicts of Interest**  
 240. **Acknowledgments**  
 241. **References**  
 242. **Appendix**  
 243. **Notes**  
 244. **Tables**  
 245. **Figures**  
 246. **Supplementary Materials**

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS															HEIGHT CODE POSITIONS											
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	E <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> D <sub>2</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>	
5214*	37 200	1	1	1	0	0	0	1	0	0	0	1	0	0	1	1	1	1	0	1	1	0	1	0	1	0	0	0
5216*	88 300	1	1	1	0	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	1	0	1	0	1	0	0	
5220	24 500	1	0	1	1	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	1	0	0	
5222	101 000	1	0	1	1	0	0	1	0	0	0	1	1	0	0	1	0	0	1	0	1	0	1	0	0	1	0	
5224*	37 000	1	0	1	1	0	0	1	0	0	0	1	0	0	1	1	1	1	0	1	0	1	0	1	0	1	0	
5226*	28 500	1	0	1	1	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1	0	0	1	1	0	
5230	24 600	1	1	1	1	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	1	1	1	0	0	
5232	101 100	1	1	1	1	0	0	1	0	0	0	1	1	0	0	1	0	0	1	0	1	0	1	0	1	1	0	
5234*	37 100	1	1	1	1	0	0	1	0	0	0	1	0	0	1	1	1	1	0	1	0	1	0	1	1	1	0	
5236*	88 400	1	1	1	1	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1	0	1	1	1	0	
5240	24 700	1	0	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	
5242	101 800	1	0	1	0	0	1	1	0	0	0	1	1	0	0	1	1	0	0	1	0	1	0	0	0	1	1	
5244*	34 800	1	0	1	0	0	1	1	0	0	0	1	0	0														

TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
5540	25 800	1 0 1 0 0 1 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 1 0 1 0 0 1
5542	99 700	1 0 1 0 0 1 1 0 1 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 0 1
5544*	25 700	1 0 1 0 0 1 1 0 1 0 0 0 1 1 1 1	0 1 1 0 1 1 0 1 0 0 0
5546*	89 800	1 0 1 0 0 1 1 0 1 0 0 1 1 1 1 1	1 1 1 0 1 1 0 1 0 0 1
5560	25 900	1 0 1 1 0 1 1 0 1 0 0 0 1 0 1 0	0 0 1 0 1 1 0 1 0 1 1
5562	99 600	1 0 1 1 0 1 1 0 1 0 0 1 1 0 1 0	1 0 1 0 1 1 0 1 0 1 1
5564*	25 600	1 0 1 1 0 1 1 0 1 0 0 0 1 1 1 1	0 1 1 0 1 1 0 1 0 1 1
5566*	89 600	1 0 1 1 0 1 1 0 1 0 0 1 1 1 1 1	1 1 1 0 1 1 0 1 0 1 1
5610	24 200	1 1 1 0 0 0 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0
5612	101 300	1 1 1 0 0 0 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 0 1 1 1 1 0
5614*	27 300	1 1 1 0 0 0 1 0 0 0 1 0 1 1 1 1	0 1 1 0 1 0 1 1 1 1 0
5616*	28 200	1 1 1 0 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 0 1 1 1 1 0
5620	24 000	1 0 1 1 0 0 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0
5622	101 400	1 0 1 1 0 0 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 0 1 0 1 1 0
5624*	27 400	1 0 1 1 0 0 1 0 0 0 1 0 1 1 1 1	0 1 1 0 1 0 1 0 1 1 0
5626*	89 400	1 0 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 0 1 0 1 1 0
5628*	89 000	1 0 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 0 1 0 1 1 0
5630	24 100	1 1 1 1 0 0 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 1 1
5632	101 400	1 1 1 1 0 0 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 0 1 0 1 1 0
5634*	27 400	1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 1	0 1 1 0 1 0 1 0 1 1 1
5636*	89 400	1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 0 1 0 1 1 0
5640	23 800	1 0 1 0 0 1 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 1 0
5642	101 700	1 0 1 0 0 1 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 0 1 0 1 1 0
5644*	27 700	1 0 1 0 0 1 1 0 0 0 1 0 1 1 1 1	0 1 1 0 1 0 1 0 1 1 0
5646*	87 800	1 0 1 0 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 0 1 0 1 1 0
5660	23 900	1 0 1 1 0 1 1 0 0 0 1 0 1 0 1 0	0 0 1 0 1 0 1 0 1 1 0
5662	101 600	1 0 1 1 0 1 1 0 0 0 1 1 1 0 1 0	1 0 1 0 1 0 1 0 1 1 0
5664*	27 600	1 0 1 1 0 1 1 0 0 0 1 0 1 1 1 1	0 1 1 0 1 0 1 0 1 1 1
5666*	87 900	1 0 1 1 0 1 1 0 0 0 1 1 1 1 1 1	1 1 1 0 1 0 1 0 1 1 0
5710	25 300	1 1 1 0 0 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0
5712	100 200	1 1 1 0 0 0 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 0 1 1 1 1 0
5714*	26 200	1 1 1 0 0 0 1 0 1 0 1 0 1 1 1 1	0 1 1 0 1 0 1 1 1 1 0
5716*	89 200	1 1 1 0 0 0 1 0 1 0 1 1 1 1 1 1	1 1 1 0 1 0 1 1 1 1 0
5720	25 500	1 0 1 1 0 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0
5722	100 900	1 0 1 1 0 0 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 0 1 1 1 1 0
5724*	26 000	1 0 1 1 0 0 1 0 1 0 1 0 1 1 1 1	0 1 1 0 1 0 1 1 1 1 0
5726*	89 500	1 0 1 1 0 0 1 0 1 0 1 1 1 1 1 1	1 1 1 0 1 0 1 1 1 1 0
5730	25 400	1 1 1 1 0 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0
5732	100 100	1 1 1 1 0 0 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 0 1 1 1 1 0
5734*	26 100	1 1 1 1 0 0 1 0 1 0 1 0 1 1 1 1	0 1 1 0 1 0 1 1 1 1 0
5736*	89 400	1 1 1 1 0 0 1 0 1 0 1 1 1 1 1 1	1 1 1 0 1 0 1 1 1 1 0
5740	25 700	1 0 1 0 0 1 1 0 1 0 1 0 1 0 1 0	0 0 1 0 1 0 1 1 1 1 0
5742	99 800	1 0 1 0 0 1 1 0 1 0 1 1 1 0 1 0	1 0 1 0 1 0 1 1 1 1 0
5744*	25 800	1 0 1 0 0 1 1 0 1 0 1 0 1 1 1 1	0 1 1 0 1 0 1 1 1 1 0
5746*	89 700	1 0 1 0 0 1 1 0 1 0 1 1 1 1 1 1	1 1 1 0 1 0 1 1 1 1 0
5760	25 400	1 0 1 1 1 0 1 1 0 1 0 1 0 1 0 1	0 0 1 0 1 0 1 1 1 1 0
5762	99 900	1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 0	1 0 1 0 1 0 1 1 1 1 0
5764*	25 900	1 0 1 1 1 0 1 1 0 1 0 1 1 1 1 1	0 1 1 0 1 0 1 1 1 1 0
5766*	89 600	1 0 1 1 1 0 1 1 0 1 0 1 1 1 1 1	1 1 1 0 1 0 1 1 1 1 0
6010	7 200	1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 0
6012	118 300	1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 0	1 0 0 1 1 0 0 0 0 1 0
6014*	54 300	1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 1	0 1 0 1 1 0 0 0 0 1 0
6016*	71 200	1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 1	1 1 0 1 1 0 0 0 0 1 0
6020	7 000	1 0 0 1 1 0 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 0
6022	118 500	1 0 0 1 1 0 1 0 0 0 0 0 0 0 1 0	1 0 0 1 1 0 0 0 0 1 0
6024*	54 500	1 0 0 1 1 0 1 0 0 0 0 0 0 0 1 1	0 1 0 1 1 0 0 0 0 1 0
6026*	71 000	1 0 0 1 1 0 1 0 0 0 0 0 0 0 1 1	1 1 0 1 1 0 0 0 0 1 0
6030	7 100	1 1 0 1 1 0 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 0
6032	118 400	1 1 0 1 1 0 1 0 0 0 0 0 0 0 1 0	1 0 0 1 1 0 0 0 0 1 0
6034*	54 400	1 1 0 1 1 0 1 0 0 0 0 0 0 0 1 1	0 1 0 1 1 0 0 0 0 1 0
6036*	71 100	1 1 0 1 1 0 1 0 0 0 0 0 0 0 1 1	1 1 0 1 1 0 0 0 0 1 0
6040	5 800	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 0
6042	118 700	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 0	1 0 0 1 1 0 0 0 0 1 0
6044*	54 700	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1	0 1 0 1 1 0 0 0 0 1 0
6046*	70 800	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1	1 1 0 1 1 0 0 0 0 1 0
6060	6 900	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 1 0
6062	118 600	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 0	1 0 0 1 1 0 0 0 0 1 0
6064*	54 600	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1	0 1 0 1 1 0 0 0 0 1 0
6066*	70 900	1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1	1 1 0 1 1 0 0 0 0 1 0
6110	10 300	1 1 0 0 1 1 0 1 0 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 0
6112	115 200	1 1 0 0 1 1 0 1 0 0 0 0 0 0 1 0	1 0 0 1 1 1 0 0 0 1 0

TABLE 2

EQUIV- ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
6114*	51 200	1 1 0 0 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 1 0 0
6116*	74 300	1 1 0 0 1 0 1 0 1 0 0 1 0 1 1 1	1 1 0 1 1 1 0 0 1 0 0
6120	10 500	1 0 0 1 1 0 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 0
6122	115 000	1 0 0 1 1 0 1 0 1 0 0 1 0 0 1 0	1 0 0 1 1 1 0 0 0 1 0
6124*	51 200	1 0 0 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 0
6125*	74 500	1 0 0 1 1 0 1 0 1 0 0 1 0 1 1 1	1 1 0 1 1 1 0 0 0 1 0
6130	10 400	1 1 0 1 1 0 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 1 0
6132	115 100	1 1 0 1 1 0 1 0 1 0 0 1 0 0 1 0	1 0 0 1 1 1 0 0 0 1 0
6134*	51 100	1 1 0 1 1 0 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 1 0
6136*	74 400	1 1 0 1 1 0 1 0 1 0 0 1 0 1 1 1	1 1 0 1 1 1 0 0 0 1 0
6140	10 700	1 0 0 0 1 1 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 0 1
6142	114 200	1 0 0 0 1 1 1 0 1 0 0 1 0 0 1 0	1 0 0 1 1 1 0 0 0 0 1
6144*	50 800	1 0 0 0 1 1 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 1
6146*	74 700	1 0 0 0 1 1 1 0 1 0 0 1 0 1 1 1	1 1 0 1 1 1 0 0 0 0 1
6160	10 600	1 0 0 1 1 1 1 0 1 0 0 0 0 0 1 0	0 0 0 1 1 1 0 0 0 0 1
6162	114 500	1 0 0 1 1 1 1 0 1 0 0 1 0 0 1 0	1 0 0 1 1 1 0 0 0 0 1
6164*	50 900	1 0 0 1 1 1 1 0 1 0 0 0 0 1 1 1	0 1 0 1 1 1 0 0 0 0 1
6166*	74 600	1 0 0 1 1 1 1 0 1 0 0 1 0 1 1 1	1 1 0 1 1 1 0 0 0 0 1
6210	8 300	1 1 0 0 1 0 1 0 0 0 0 1 0 0 0 1	0 0 0 1 1 0 1 0 1 0 0
6212	117 200	1 1 0 0 1 0 1 0 0 0 0 1 0 0 0 1	1 0 0 1 1 0 1 0 1 0 0
6214*	52 200	1 1 0 0 1 0 1 0 0 0 0 1 0 0 1 1	0 1 0 1 1 0 1 0 1 0 0
6216*	72 300	1 1 0 0 1 0 1 0 0 0 0 1 0 1 1 1	1 1 0 1 1 0 1 0 1 0 0
6220	8 500	1 0 0 1 1 0 1 0 0 0 0 1 0 0 0 1	0 0 0 1 1 0 1 0 0 1 0
6222	117 000	1 0 0 1 1 0 1 0 0 0 0 1 1 0 0 1	1 0 0 1 1 0 1 0 0 1 0
6224*	52 000	1 0 0 1 1 0 1 0 0 0 0 1 0 0 1 1	0 1 0 1 1 0 1 0 0 1 0
6226*	72 500	1 0 0 1 1 0 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 1 0 0 1 0
6230	8 400	1 1 0 1 1 0 1 0 0 0 0 1 0 0 0 1	0 0 0 1 1 0 1 0 1 1 0
6232	117 100	1 1 0 1 1 0 1 0 0 0 0 1 1 0 0 1	1 0 0 1 1 0 1 0 1 1 0
6234*	52 100	1 1 0 1 1 0 1 0 0 0 0 1 0 0 1 1	0 1 0 1 1 0 1 0 1 1 0
6236*	72 400	1 1 0 1 1 0 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 1 0 1 1 0
6240	8 700	1 0 0 0 1 1 1 0 0 0 0 1 0 0 0 1	0 0 0 1 1 0 1 0 0 0 1
6242	116 800	1 0 0 0 1 1 1 0 0 0 0 1 1 0 0 1	1 0 0 1 1 0 1 0 0 0 1
6244*	52 800	1 0 0 0 1 1 1 0 0 0 0 1 0 0 1 1	0 1 0 1 1 0 1 0 0 0 1
6246*	72 700	1 0 0 0 1 1 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 1 0 0 0 1
6260	8 600	1 0 0 1 1 1 1 0 0 0 0 1 0 0 0 1	0 0 0 1 1 0 1 0 0 1 1
6262	116 900	1 0 0 1 1 1 1 0 0 0 0 1 1 0 0 1	1 0 0 1 1 0 1 0 0 1 1
6264*	52 900	1 0 0 1 1 1 1 0 0 0 0 1 0 0 1 1	0 1 0 1 1 0 1 0 0 1 1
6266*	72 600	1 0 0 1 1 1 1 0 0 0 0 1 1 0 1 1	1 1 0 1 1 0 1 0 0 1 1
6310	9 200	1 1 0 0 1 0 1 0 1 0 1 0 0 0 0 1	0 0 0 1 1 1 1 0 1 0 0
6312	116 300	1 1 0 0 1 0 1 0 1 0 1 1 0 0 0 1	1 0 0 1 1 1 1 0 1 0 0
6314*	52 300	1 1 0 0 1 0 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 0 1 0 0
6316*	72 200	1 1 0 0 1 0 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 1 1 0 1 0 0
6320	9 000	1 0 0 1 1 0 1 0 1 0 1 0 0 0 0 1	0 0 0 1 1 1 1 0 0 1 0
6322	116 500	1 0 0 1 1 0 1 0 1 0 1 1 0 0 0 1	1 0 0 1 1 1 1 0 0 1 0
6324*	52 500	1 0 0 1 1 0 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 0 0 1 0
6326*	72 000	1 0 0 1 1 0 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 1 1 0 0 1 0
6330	9 100	1 1 0 1 1 0 1 0 1 0 1 0 0 0 0 1	0 0 0 1 1 1 1 0 1 1 0
6332	116 400	1 1 0 1 1 0 1 0 1 0 1 1 0 0 0 1	1 0 0 1 1 1 1 0 1 1 0
6334*	52 400	1 1 0 1 1 0 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 0 1 1 0
6336*	72 100	1 1 0 1 1 0 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 1 1 0 1 1 0
6340	8 800	1 0 0 0 1 1 1 0 1 0 1 0 0 0 0 1	0 0 0 1 1 1 1 0 0 0 1
6342	116 700	1 0 0 0 1 1 1 0 1 0 1 1 0 0 0 1	1 0 0 1 1 1 1 0 0 0 1
6344*	52 700	1 0 0 0 1 1 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 0 0 0 1
6346*	72 800	1 0 0 0 1 1 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 1 1 0 0 0 1
6360	8 900	1 0 0 1 1 1 1 0 1 0 1 0 0 0 0 1	0 0 0 1 1 1 1 0 0 0 1
6362	116 600	1 0 0 1 1 1 1 0 1 0 1 1 0 0 0 1	1 0 0 1 1 1 1 0 0 0 1
6364*	52 600	1 0 0 1 1 1 1 0 1 0 1 0 0 1 1 1	0 1 0 1 1 1 1 0 0 0 1
6366*	72 900	1 0 0 1 1 1 1 0 1 0 1 1 0 1 1 1	1 1 0 1 1 1 1 0 0 0 1
6410	7 300	1 1 0 0 1 0 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 1 0 0
6412	118 200	1 1 0 0 1 0 1 0 0 0 0 1 1 0 0 1	1 0 0 1 1 0 0 1 1 0 0
6414*	54 200	1 1 0 0 1 0 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 0 0 1 1 0 0
6416*	71 300	1 1 0 0 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 1 1 0 0
6420	7 500	1 0 0 1 1 0 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 0 1 0
6422	118 000	1 0 0 1 1 0 1 0 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 0 1 0
6424*	54 000	1 0 0 1 1 0 1 0 0 0 0 0 0 1 1 1	0 1 0 1 1 0 0 1 0 1 0
6426*	71 500	1 0 0 1 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 1 0 1 0
6430	7 400	1 1 0 1 1 0 1 0 0 0 0 0 0 1 0 1	0 0 0 1 1 0 0 1 1 1 0
6432	118 100	1 1 0 1 1 0 1 0 0 0 0 1 1 0 1 0	1 0 0 1 1 0 0 1 1 1 0
6434*	54 100	1 1 0 1 1 0 1 0 0 0 0 0 1 1 1 1	0 1 0 1 1 0 0 1 1 1 0
6436*	71 400	1 1 0 1 1 0 1 0 0 0 0 1 1 1 1 1	1 1 0 1 1 0 0 1 1 1 0

TABLE 2

EQUIV = ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS															HEIGHT CODE POSITIONS												
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> AND D <sub>2</sub> SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>		
6447	7 700	1	0	0	0	1	1	1	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	
6447	117 800	1	0	0	0	1	1	1	0	0	0	0	0	1	2	0	1	0	1	0	0	1	0	0	1	0	0	1	
6444*	53 800	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	0	1	0	0	1	0	0	1	0	0	1	
6446*	71 700	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	0	1		
6447	7 500	1	0	0	1	1	1	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	1	0	1	1	0		
6467	117 900	1	0	0	1	1	1	1	0	0	0	0	0	1	2	0	1	0	1	0	0	1	0	1	1	0	0	1	
6464*	53 900	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	0	1	0	0	1	0	1	0	1	1		
6466*	71 400	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	1		
6510	10 200	1	1	0	0	1	0	1	0	1	0	0	0	1	0	1	0	0	0	1	1	0	1	1	0	0	0	0	
6512	115 300	1	1	0	0	1	0	1	0	1	0	0	0	1	2	0	1	0	0	1	1	0	1	1	0	0	0	0	
6514*	51 700	1	1	0	0	1	0	1	0	1	0	0	0	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	
6514*	74 200	1	1	0	0	1	0	1	0	1	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6520	10 000	1	0	0	1	1	0	1	0	1	0	0	0	1	0	1	0	1	0	0	1	1	0	1	0	1	0	0	
6522	115 500	1	0	0	1	1	0	1	0	1	0	0	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
6524*	51 400	1	0	0	1	1	0	1	0	1	0	0	0	1	1	1	1	1	0	1	0	1	0	1	0	1	0	0	
6526*	74 000	1	0	0	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	0	1	0	1	0	1	0	0	0	
6530	10 100	1	1	0	1	1	0	1	0	1	0	0	0	1	0	1	0	1	0	0	1	1	0	1	1	0	0	0	
6532	115 400	1	1	0	1	1	0	1	0	1	0	0	0	1	1	0	1	0	1	0	1	0	1	1	0	1	0	0	
6534*	51 400	1	1	0	1	1	0	1	0	1	0	0	0	1	1	1	1	1	0	1	0	1	1	1	0	1	0	0	
6536*	74 100	1	1	0	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	0	
6540	9 800	1	0	0	0	1	1	1	0	1	0	0	0	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	
6542	115 700	1	0	0	0	1	1	1	0	1	0	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	1	0	
6544*	51 700	1	0	0	0	1	1	1	0	1	0	0	0	1	1	1	1	1	0	1	0	1	0	0	0	1	0	0	
6546*	73 800	1	0	0	0	1	1	1	0	1	0	0	0	1	1	1	1	1	1	0	1	0	1	0	0	1	0	0	
6560	9 900	1	0	0	1	1	1	1	0	1	0	0	0	1	0	1	0	0	0	1	1	0	1	0	1	1	0	0	
6562	115 600	1	0	0	1	1	1	1	0	1	0	0	0	1	1	0	1	0	0	1	1	0	1	0	1	1	0	0	
6564*	51 600	1	0	0	1	1	1	1	0	1	0	0	0	1	1	1	1	1	0	1	0	1	0	1	0	1	1	0	
6566*	73 900	1	0	0	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	0	1	0	1	0	1	1	0	0	
6610	8 200	1	1	0	0	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	1	1	0	0	0	
6612	117 300	1	1	0	0	1	0	1	0	0	0	0	1	1	1	0	1	0	0	1	1	0	1	1	0	0	0	0	
6614*	53 700	1	1	0	0	1	0	1	0	0	0	0	1	0	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6616*	72 200	1	1	0	0	1	0	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6620	8 000	1	0	0	1	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	1	0	1	0	0	
6622	117 500	1	0	0	1	1	0	1	0	0	0	0	1	1	1	0	1	0	0	1	1	0	1	0	1	0	0	0	
6624*	53 500	1	0	0	1	1	0	1	0	0	0	0	1	0	1	1	1	1	1	0	1	0	1	0	1	0	0	0	
6626*	72 300	1	0	0	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	0	0	0	
6630	8 100	1	1	0	1	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	1	1	0	0	0	
6632	117 400	1	1	0	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	1	1	0	1	1	1	0	0	0	
6634*	53 400	1	1	0	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0	0	
6636*	72 100	1	1	0	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0	0	
6640	7 800	1	0	0	0	1	1	1	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	0	0	1	0	0	
6642	117 700	1	0	0	0	1	1	1	0	0	0	0	1	1	1	0	1	0	0	0	1	1	0	0	0	1	0	0	
6644*	53 700	1	0	0	0	1	1	1	0	0	0	0	1	0	1	1	1	1	1	0	1	0	0	0	0	1	0	0	
6646*	71 800	1	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	
6660	7 900	1	0	0	1	1	1	1	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	1	0	1	1	0	
6662	117 600	1	0	0	1	1	1	1	0	0	0	0	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	0	
6664*	53 600	1	0	0	1	1	1	1	0	0	0	0	1	0	1	1	1	1	1	0	1	0	1	0	1	1	0	0	
6666*	71 900	1	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	1	0	0	
6710	9 300	1	1	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	1	1	1	1	0	0	0	
6712	116 200	1	1	0	0	1	0	1	0	1	0	1	1	1	1	0	1	0	0	1	1	1	1	1	0	0	0	0	
6714*	52 200	1	1	0	0	1	0	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6716*	73 300	1	1	0	0	1	0	1	0	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6720	9 400	1	0	0	1	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0	1	1	1	0	1	0	0	0	
6722	116 000	1	0	0	1	1	0	1	0	1	0	1	1	1	1	0	1	0	0	1	1	1	1	0	1	0	0	0	
6724*	52 000	1	0	0	1	1	0	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6726*	73 500	1	0	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	
6730	9 400	1	1	0	1	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0	1	1	1	1	0	0	0	0	
6732	116 100	1	1	0	1	1	0	1	0	1	0	1	1	1	1	0	1	0	0	0	1	1	1	1	1	0	0	0	
6734*	52 100	1	1	0	1	1	0	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	1	0	0	0	
6736*	73 400	1	1	0	1	1	0	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	1	0	0	0	
6740	9 700	1	0	0	0	1	1	1	0	1	0	0	1	0	1	0	1	0	0	0	1	1	1	0	0	0	1	0	
6742	115 800	1	0	0	0	1	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	1	1	0	0	0	1	0	
6744*	51 800	1	0	0	0	1	1	1	0	1	0	0	0	1	0	1	1	1	1	0	1	0	0						



TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS															HEIGHT CODE POSITIONS										
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> D <sub>2</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>
7014*	20 200	1	1	1	0	1	0	1	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	0	0
7016*	26 300	1	1	1	0	1	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	1	0	0
7020	22 500	1	0	1	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0
7022	102 000	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	1	0
7024*	20 000	1	0	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	0	1	0
7026*	86 500	1	0	1	1	1	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	1	0
7030	22 400	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	1	0
7032	102 100	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	1	1	0
7034*	20 100	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	1	1	0
7034*	86 400	1	1	1	1	1	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	1	1	0
7040	22 700	1	0	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1
7042	102 800	1	0	1	0	1	1	1	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0	1
7044*	28 800	1	0	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	1
7044*	86 700	1	0	1	0	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	1
7050	22 600	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	1	1
7062	102 900	1	0	1	1	1	1	1	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	1	1
7064*	28 900	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	1
7064*	86 600	1	0	1	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	1	1
7110	10 200	1	1	1	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	0	0
7112	106 300	1	1	1	0	1	0	1	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0	0	1	0	0
7114*	42 300	1	1	1	0	1	0	1	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	1	0	0
7116*	82 200	1	1	1	0	1	0	1	0	1	0	0	0	1	0	1	1	1	1	1	1	0	0	1	0	0	0
7120	10 000	1	0	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	1	0
7122	106 500	1	0	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	1	1	1	1	0	0	0	1	0
7124*	42 500	1	0	1	1	1	1	1	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	0
7126*	82 000	1	0	1	1	1	1	1	0	1	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	1	0
7130	10 100	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	0
7132	106 400	1	1	1	1	1	0	1	0	1	0	0	0	1	0	0	1	0	1	1	1	1	0	0	1	1	0
7134*	42 400	1	1	1	1	1	0	1	0	1	0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	0
7136*	82 100	1	1	1	1	1	0	1	0	1	0	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	0
7140	18 800	1	0	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	1
7142	106 700	1	0	1	0	1	1	1	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0	1
7144*	42 700	1	0	1	0	1	1	1	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	1
7146*	82 800	1	0	1	0	1	1	1	0	1	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	1
7140	18 900	1	0	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	1	1
7142	106 600	1	0	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	1	1	1	1	0	0	0	1	1
7144*	42 600	1	0	1	1	1	1	1	0	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1
7146*	82 900	1	0	1	1	1	1	1	0	1	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	1	1
7210	21 200	1	1	1	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	1	1	0	1	0	0	0
7212	104 300	1	1	1	0	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	1	0	1	0	0	0
7214*	40 300	1	1	1	0	1	0	1	0	0	0	0	0	1	0	0	1	1	1	1	1	0	1	0	1	0	0
7216*	80 200	1	1	1	0	1	0	1	0	0	0	0	0	1	1	0	1	1	1	1	1	0	1	0	1	0	0
7220	21 000	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	0	0	1	0
7222	104 500	1	0	1	1	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	1	0	0	0	1	0
7224*	40 500	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	1	1	1	1	1	0	1	0	0	1	0
7226*	80 000	1	0	1	1	1	0	1	0	0	0	0	0	1	1	0	1	1	1	1	1	0	0	0	0	1	0
7230	21 100	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	1	1	0	1	1	0	0
7232	104 400	1	1	1	1	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	1	0	1	1	0	0
7234*	40 400	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	1	1	1	1	1	0	1	0	1	1	0
7234*	80 100	1	1	1	1	1	0	1	0	0	0	0	0	1	1	0	1	1	1	1	1	0	1	0	1	1	0
7240	20 800	1	0	1	0	1	1	1	0	0	0	0	0	1	0	0	1	0	0	1	1	1	0	0	0	0	1
7242	104 700	1	0	1	0	1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0	0	0	1
7244*	40 700	1	0	1	0	1	1	1	0	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	1
7246*	84 800	1	0	1	0	1	1	1	0	0	0	0	0	1	1	0	1	1	1	1	1	0	1	0	0	0	1
7260	20 900	1	0	1	1	1	1	1	0	0	0	0	0	1	0	0	1	0	0	1	1	1	0	0	0	1	1
7262	104 600	1	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	1	1	1	1	1	0	0	0	1	1
7264*	40 600	1	0	1	1	1	1	1	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0	0	0	1	1
7266*	84 900	1	0	1	1	1	1	1	0	0	0	0	0	1	1	0	1	1	1	1	1	1	0	0	0	1	1
7310	20 300	1	1	1	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	1	0	0	0
7312	104 200	1	1	1	0	1	0	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1	0	0	0
7314*	41 200	1	1	1	0	1	0	1	0	1	0	0	0	1	0	0	1	1	1	1	1	1	0	1	0	0	0
7316*	84 300	1	1	1	0	1	0	1	0	1	0	0	0	1	0	0	1	1	1	1	1	1	0	1	0	0	0
7320	20 600	1	0	1	1	1	0	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	1	0
7322	104 300	1	0	1	1	1	0	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	0	0	1	0
7324*	41 300	1	0	1	1	1	0	1	0	1	0	0	0	1	0	0	1	1	1	1	1	1	0</				

## TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS																HEIGHT CODE POSITIONS															
ABCD	FEET	F <sub>1</sub>	C <sub>1</sub>	A <sub>1</sub>	C <sub>2</sub>	A <sub>2</sub>	C <sub>4</sub>	A <sub>4</sub>	X	B <sub>1</sub>	D <sub>1</sub>	B <sub>2</sub>	D <sub>2</sub>	B <sub>4</sub>	D <sub>4</sub>	F <sub>2</sub>	SPI	D <sub>4</sub> D <sub>2</sub> AND SPI	A <sub>1</sub>	A <sub>2</sub>	A <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>4</sub>						
7360	20 700	1	0	1	0	1	1	1	0	1	0	1	0	0	0	1	0	0	0	1	1	1	1	1	0	0	0	1					
7362	104 800	1	0	1	0	1	1	1	0	1	0	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1						
7364	40 800	1	0	1	0	1	1	1	0	1	0	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1						
7366	84 700	1	0	1	0	1	1	1	0	1	0	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1						
7368	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1						
7369	20 600	1	0	1	1	1	1																										

# TABLE 2

EQUIV - ALENT MODE 3/A REPLY	HEIGHT	PULSE POSITIONS	HEIGHT CODE POSITIONS
ABCD	FEET	F <sub>1</sub> C <sub>1</sub> A <sub>1</sub> C <sub>2</sub> A <sub>2</sub> C <sub>4</sub> A <sub>4</sub> X <sup>*</sup> B <sub>1</sub> D <sub>1</sub> B <sub>2</sub> D <sub>2</sub> B <sub>4</sub> D <sub>4</sub> F <sub>2</sub> SPI	D <sub>4</sub> D <sub>2</sub> AND A <sub>1</sub> A <sub>2</sub> A <sub>4</sub> B <sub>1</sub> B <sub>2</sub> B <sub>4</sub> C <sub>1</sub> C <sub>2</sub> C <sub>4</sub> SPI
7714*	41 300	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 0 0
7716*	84 200	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 0
7720	20 000	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 0 0
7722	105 500	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 0 0
7724*	41 500	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 0 0
7726*	84 000	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 0
7730	20 100	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 1 0
7732	105 400	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 1 0
7734*	41 400	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 0
7736*	84 100	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 0
7740	19 800	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 0 0
7742	105 700	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 0 0
7744*	41 700	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 0 0
7746*	84 800	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 0
7748	19 900	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 0 0
7762	105 600	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 0 0
7764*	41 600	1 1 1 1 1 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 0 0
7766*	84 900	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 0